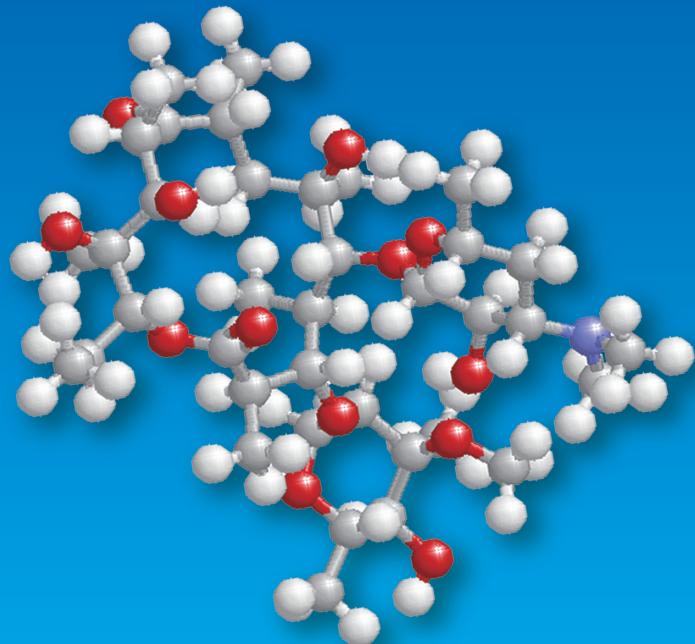


# 研究和试验用抗菌类和抗肿瘤类

Antimicrobials and Antitumors for Research and Experimental Use



## 抗菌类

青霉素类  
头孢烯类  
氨基糖苷类  
大环内脂类  
其它

## 合成抗菌类

喹啉酮类  
磺胺类  
其它

## 抗真菌类

## 抗病毒类

## 抗肿瘤类

# 研究和试验用抗菌类和抗肿瘤类

自从1929年弗莱明发现青霉素<sup>1)</sup>，抗菌剂已被广泛应用于临床。细菌感染曾经是对人类最大的威胁，那些死于细菌感染的人数已经大幅减少，平均寿命大大延长<sup>2)</sup>。

抗菌剂是阻止微生物生长的化学物质，一般分为抗生素类，合成抗菌类，抗病毒类和抗真菌类。微生物类产生的抗生素类和抗菌类，根据结构可以分为氨基配糖体，头孢烯，大环内酯类和青霉素类等。而且，它们部分化学改性的合成类似物一般被称为抗生素类。另一方面，合成抗菌类具有相同的抗菌作用，具有代表性的如喹啉酮类<sup>3)</sup>和磺胺类，已经通过单纯的有机合成得到。抗菌剂，如盐酸布替萘芬，被用于抑制真核细菌的生长。抗病毒类主要由改性核苷组成，如叠氮胸苷<sup>5)</sup>，可以抑制病毒在宿主细胞中复制。抗病毒类可以抑制病毒-非细胞型微生物的生成。

抗肿瘤剂可以抑制肿瘤细胞的生长。如喜树碱<sup>6)</sup>可以影响肿瘤细胞的组成和它们的活性。据近期报道5'-氮杂胞苷<sup>7)</sup>和TSA<sup>8)</sup>可以提高多功能干细胞(iPS)细胞生成效率<sup>9)</sup>。格尔德霉素<sup>10)</sup>同时具有抗菌性和抗肿瘤性。

因为抗菌剂的发明和创新，细菌感染显著降低。然而，多重抗药性细菌的医院感染，如耐甲氧西林金黄色葡萄球菌(MRSA)引出一个新问题，要求开发出新的抗菌药。研发用的抗菌剂正得到越来越多的关注，不仅为了比较研究，而且也是化学合成的起始物质。

## References

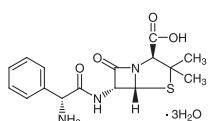
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b) Recent Advances in the Chemistry and Biology of Naturally Occurring Antibiotics: K. C. Nicolaou, J. S. Chen, D. J. Edmonds, A. A. Estrada, *Angew. Chem. Int. Ed.* **2009**, 48, 660.
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## 抗菌类

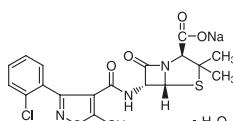
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A2092 25g



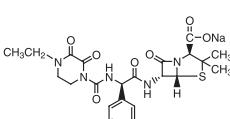
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[7177-48-2]

C2244 1g 5g



Cloxacillin Sodium Salt  
Monohydrate [7081-44-9]

P1774 1g 5g



Piperacillin Sodium Salt  
[59703-84-3]

## 头孢烯类

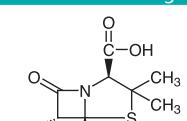
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## 青霉素类

### Penicillins

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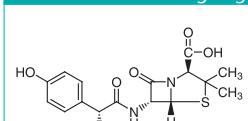
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6-Aminopenicillanic Acid  
[551-16-6]

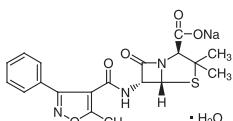
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5g 25g



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[61336-70-7]

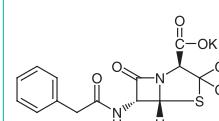
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Oxacillin Sodium Salt  
Monohydrate [7240-38-2]

P1772

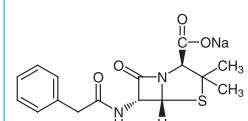
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[113-98-4]

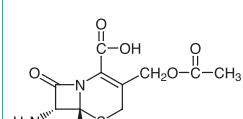
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1g 5g



Penicillin G Sodium Salt  
[69-57-8]

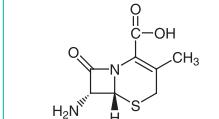
A1266 5g 25g



7-Aminocephalosporanic  
Acid [957-68-6]

A2075

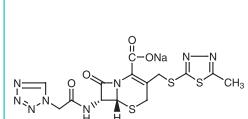
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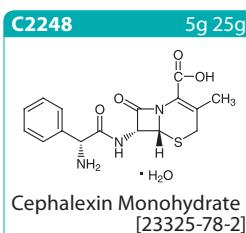
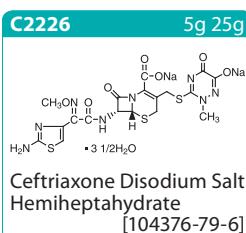
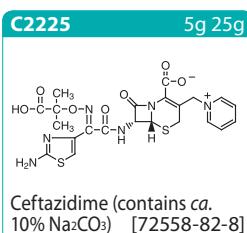
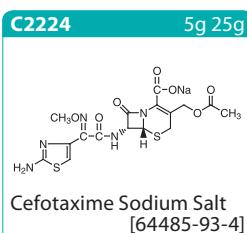
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[22252-43-3]

C2242

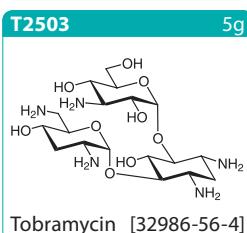
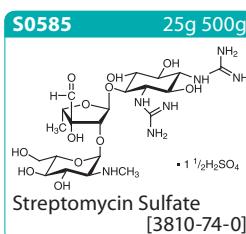
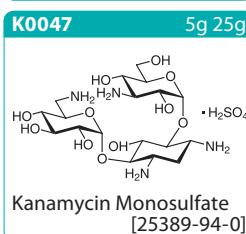
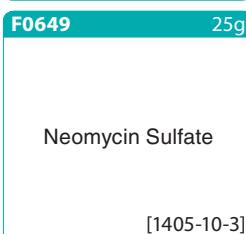
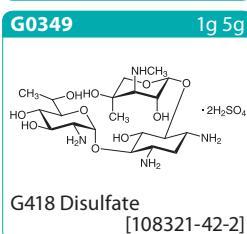
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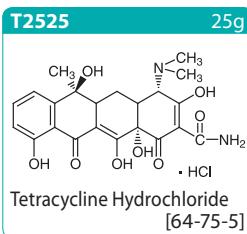
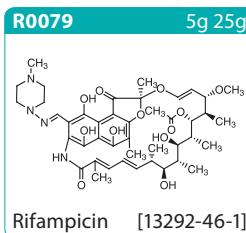
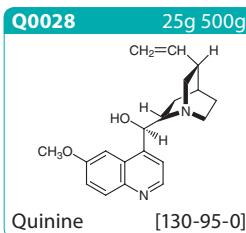
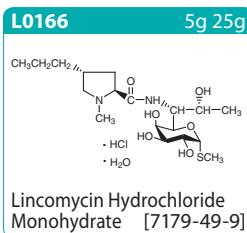
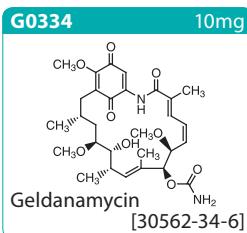
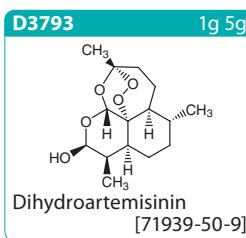
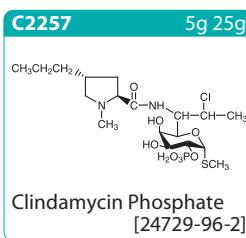
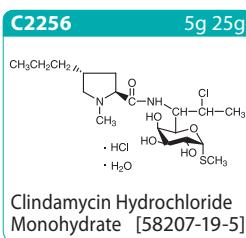
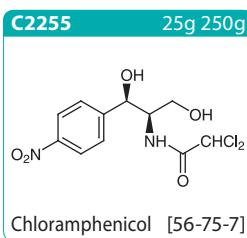
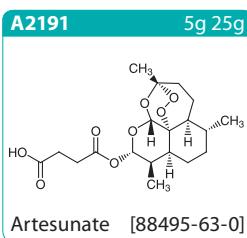
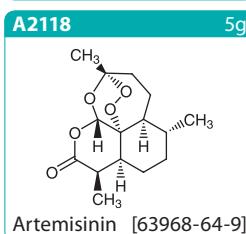
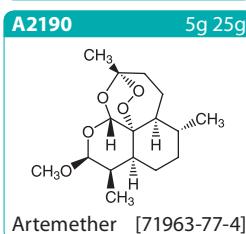
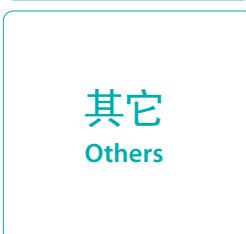
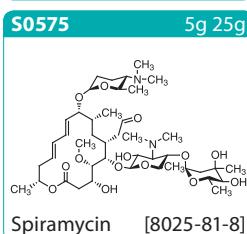
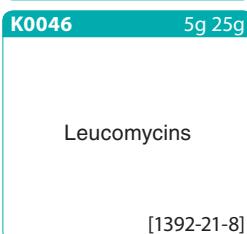
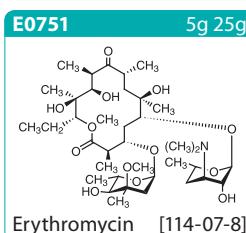
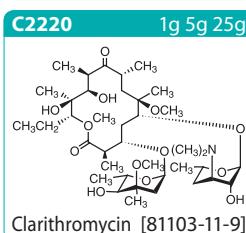
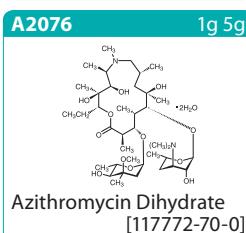
Cefazolin Sodium Salt  
[27164-46-1]



## 氨基糖苷类 Aminoglycosides

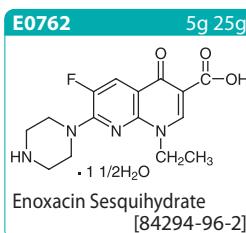
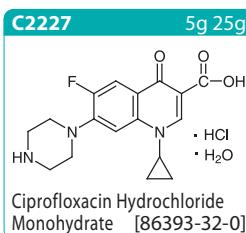


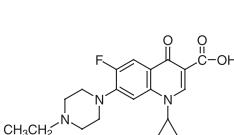
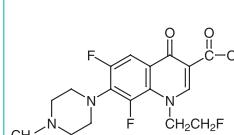
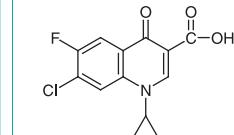
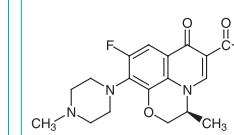
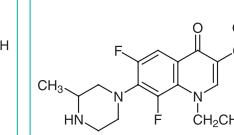
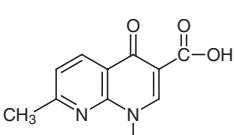
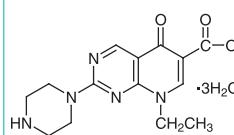
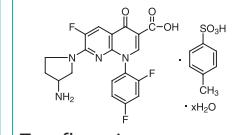
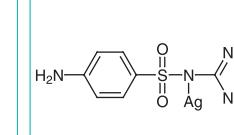
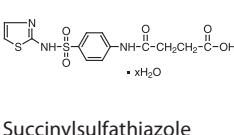
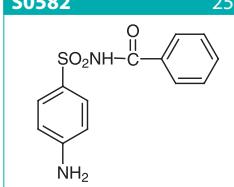
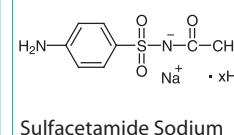
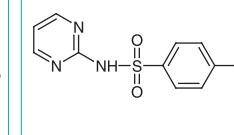
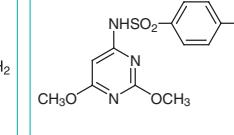
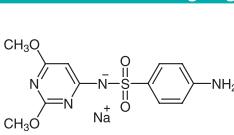
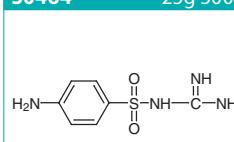
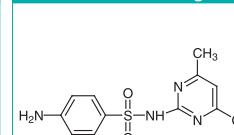
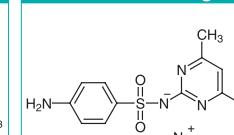
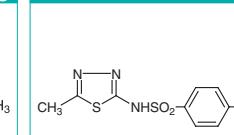
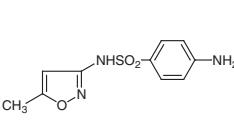
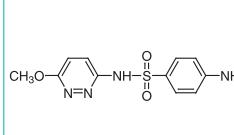
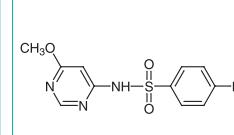
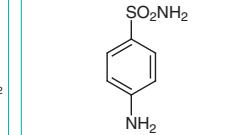
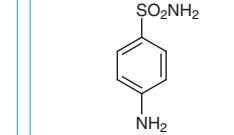
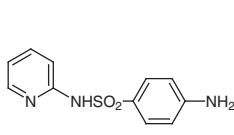
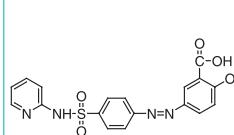
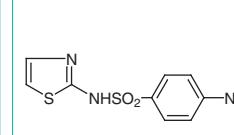
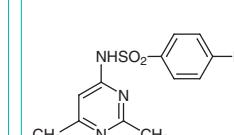
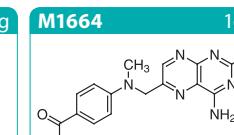
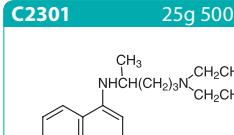
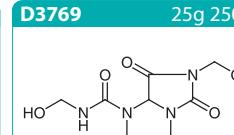
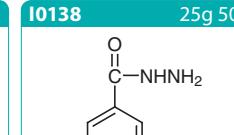
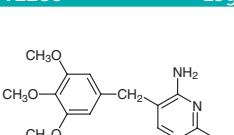
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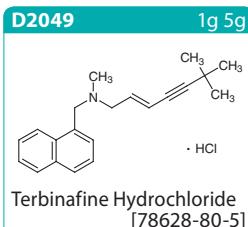
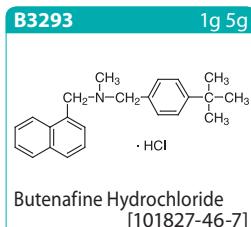
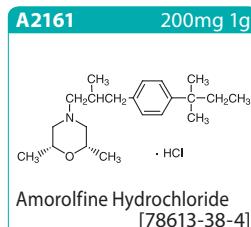
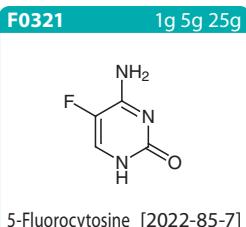
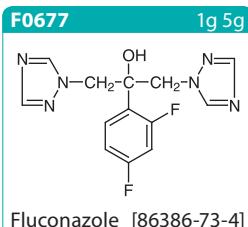
## 合成抗菌类 Synthetic Antimicrobials

## 喹啉酮类 Quinolones

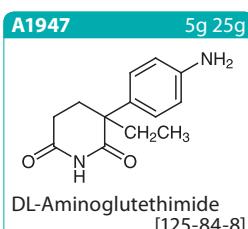
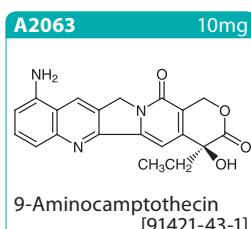
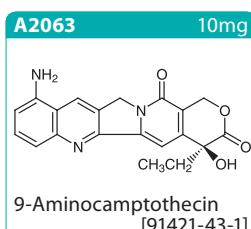
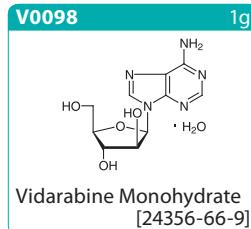
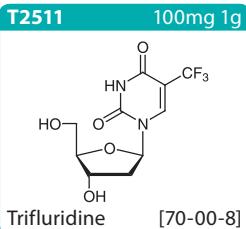
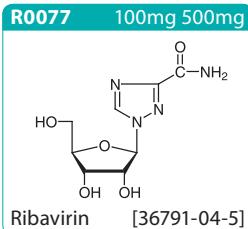
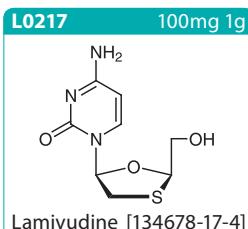
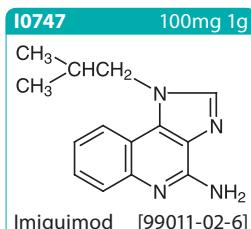
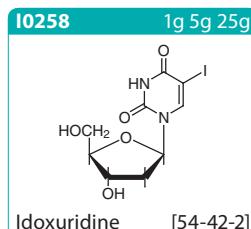
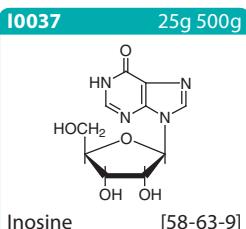
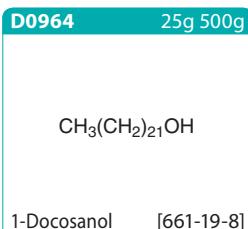
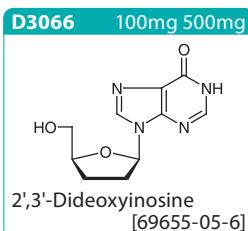
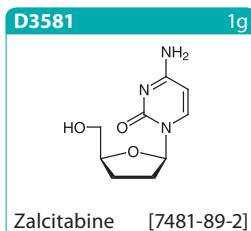
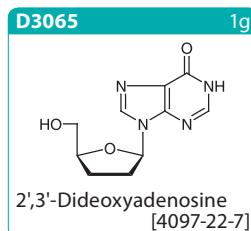
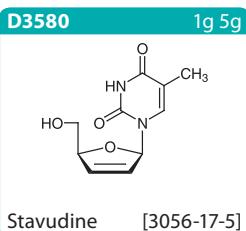
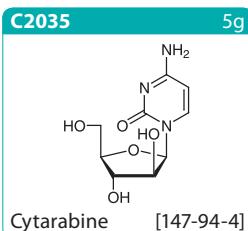


<b>E0786</b>	5g 25g		<b>F0646</b>	5g 25g		<b>C2293</b>	5g 25g		<b>L0193</b>	5g 25g		<b>L0216</b>	5g 25g	
Enrofloxacin [93106-60-6]			Fleroxacin [79660-72-3]			Fluoroquinolonic Acid [86393-33-1]			Levofloxacin [100986-85-4]			Lomefloxacin Hydrochloride [98079-52-8]		
<b>N0490</b>	25g 500g		<b>P1773</b>	25g		<b>T2506</b>	5g 25g				<b>磺胺类</b> Sulfonamides	<b>S0595</b>	5g 25g	
Nalidixic Acid [389-08-2]			Pipemidic Acid Trihydrate [72571-82-5]			Tosufloxacin p-Toluenesulfonate Hydrate [115964-29-9]					Silver Sulfadiazine [22199-08-2]			
<b>S0581</b>	25g 500g		<b>S0582</b>	25g		<b>S0578</b>	25g 250g		<b>S0579</b>	25g		<b>S0359</b>	25g	
Succinylsulfathiazole Hydrate [116-43-8]			Sulfabenzamide [127-71-9]			Sulfacetamide Sodium Salt Hydrate [127-56-0]			Sulfadiazine [68-35-9]			Sulfadimethoxine [122-11-2]		
<b>S0589</b>	5g 25g		<b>S0464</b>	25g 500g		<b>S0586</b>	25g 250g		<b>S0583</b>	25g 500g		<b>S0360</b>	25g	
Sulfadimethoxine Sodium Salt [1037-50-9]			Sulfaguanidine [57-67-0]			Sulfamethazine [57-68-1]			Sulfamethazine Sodium Salt [1981-58-4]			Sulfamethizole [144-82-1]		
<b>S0361</b>	25g		<b>S0591</b>	5g 25g		<b>S0592</b>	5g 25g		<b>S0119</b>	25g 500g		<b>S0381</b>	25g	
Sulfamethoxazole [723-46-6]			Sulfamethoxypyridazine [80-35-3]			Sulfamonomethoxine [1220-83-3]			Sulfanilamide >99.0%(T) [63-74-1]			Sulfanilamide(SU) >99.0% (T) [63-74-1]		
<b>S0071</b>	25g 500g		<b>S0580</b>	25g		<b>S0272</b>	25g 500g		<b>S0362</b>	1g		<b>M1664</b>	1g 5g	
Sulfapyridine [144-83-2]			Sulfasalazine [599-79-1]			Sulfathiazole [72-14-0]			Sulfisomidine [515-64-0]			Methotrexate Hydrate [59-05-2]		
<b>其它</b> <b>Others</b>		<b>C2301</b>	25g 500g		<b>D3769</b>	25g 250g		<b>I0138</b>	25g 500g		<b>T2286</b>	25g		
Chloroquine Diphosphate [50-63-5]			Diazolidinyl Urea [78491-02-8]			Isonicotinic Acid Hydrazide [54-85-3]			Isonicotinic Acid Hydrazide [54-85-3]			Trimethoprim [738-70-5]		

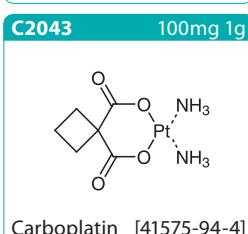
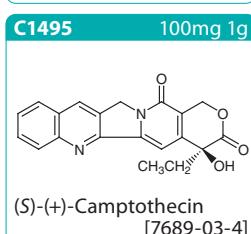
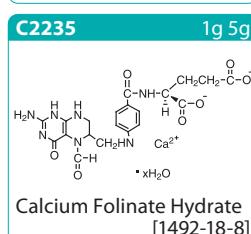
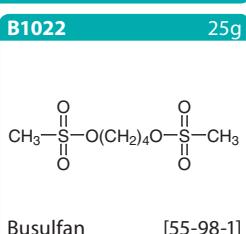
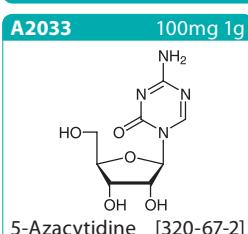
## 抗真菌类 Antifungals

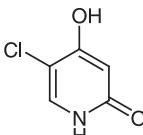
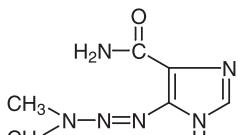
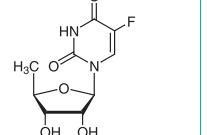
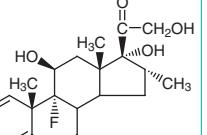
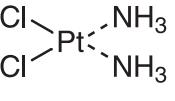
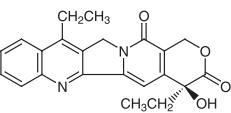
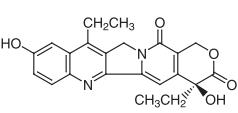
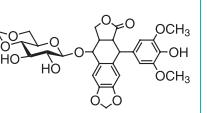
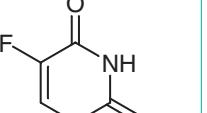
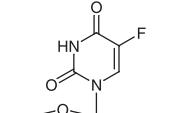
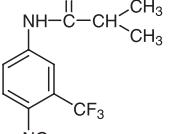
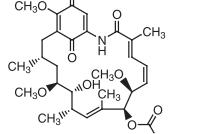
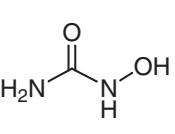
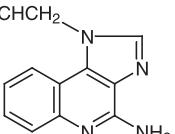
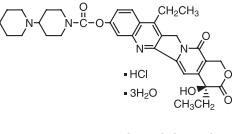
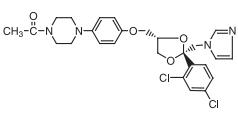
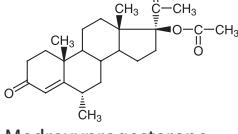
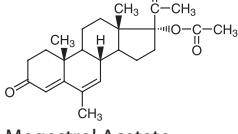
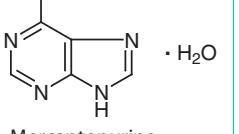
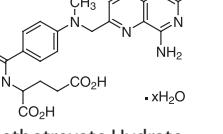
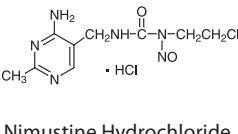
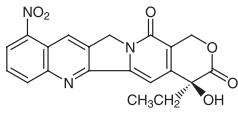
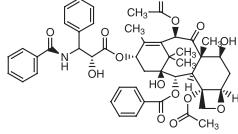
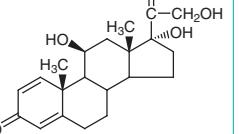
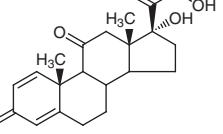
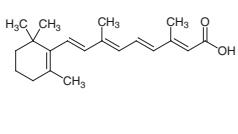
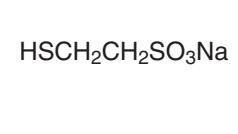
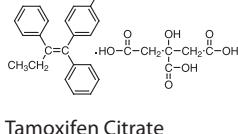
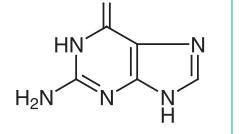
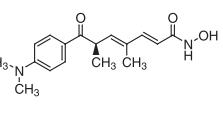


## 抗病毒类 Antivirals



## 抗肿瘤类 Antitumors



<b>C2243</b> Gimeracil [103766-25-2]	<b>D3634</b> Dacarbazine [4342-03-4]	<b>D3579</b> 5'-Deoxy-5-fluorouridine [3094-09-5]	<b>D1961</b> Dexamethasone [50-02-2]	<b>D3371</b> Cisplatin [15663-27-1]
				
<b>E0781</b> 7-Ethylcamptothecin [78287-27-1]	<b>E0748</b> 7-Ethyl-10-hydroxy-camptothecin [86639-52-3]	<b>E0675</b> Etoposide (contains ca. 5% Ethanol) [33419-42-0]	<b>F0151</b> 5-Fluorouracil [51-21-8]	<b>F0635</b> Tegafur [17902-23-7]
				
<b>F0663</b> Flutamide [13311-84-7]	<b>G0334</b> Geldanamycin [30562-34-6]	<b>H0310</b> Hydroxyurea [127-07-1]	<b>I0747</b> Imiquimod [99011-02-6]	<b>I0714</b> Irinotecan Hydrochloride Trihydrate [136572-09-3]
				
<b>K0045</b> Ketoconazole [65277-42-1]	<b>M1964</b> Medroxyprogesterone Acetate [71-58-9]	<b>M1949</b> Megestrol Acetate [595-33-5]	<b>M0063</b> 6-Mercaptopurine Hydrate [6112-76-1]	<b>M1664</b> Methotrexate Hydrate [59-05-2]
				
<b>N0821</b> Nimustine Hydrochloride [55661-38-6]	<b>N0822</b> Rubitecan [91421-42-0]	<b>P1632</b> Paclitaxel [33069-62-4]	<b>P0637</b> Prednisolone [50-24-8]	<b>P1276</b> Prednisone [53-03-2]
				
<b>R0064</b> Retinoic Acid [302-79-4]	<b>M0913</b> Mesna [19767-45-4]	<b>T2510</b> Tamoxifen Citrate [54965-24-1]	<b>T0212</b> 6-Thioguanine [154-42-7]	<b>T2477</b> Trichostatin A [58880-19-6]
				
<b>V0098</b> Vidarabine Monohydrate [24356-66-9]				
				



**梯希爱(上海)化成工业发展有限公司**

上海市化学工业区普工路96号 邮编: 201507

**免费电话: 800-988-0390** 电话: 021-6712-1386 传真: 021-6712-1385  
邮件: sales@tcishanghai.com.cn

**www.tcishanghai.com.cn**