

产品名称：**D-青霉胺**
 产品别名：**Penicillamine**

生物活性：

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Description		Penicillamine (D-(-)-Penicillamine) is the most characteristic degradation product of the penicillin antibiotics. It is used as an antirheumatic and as a chelating agent in Wilson's disease. Target: Others Penicillamine is used as an antirheumatic and as a chelating agent in Wilson's disease and is a chelating agent recommended for the removal of excess copper in patients with Wilson's disease. From in vitro studies which indicate that one atom of copper combines with two molecules of penicillamine. Penicillamine also reduces excess cystine excretion in cystinuria. The mechanism of action of penicillamine in rheumatoid arthritis is unknown although it appears to suppress disease activity. Unlike cytotoxic immunosuppressants, Penicillamine markedly lowers IgM rheumatoid factor but produces no significant depression in absolute levels of serum immunoglobulins. Also unlike cytotoxic immunosuppressants which act on both, Penicillamine in vitro depresses T-cell activity but not B-cell activity [1-3].																				
Solvent&Solubility		In Vitro:																				
		H ₂ O : ≥ 100 mg/mL (670.20 mM)																				
		* "≥" means soluble, but saturation unknown.																				
		<table><tr><td rowspan="4">Preparing Stock Solutions</td><td><div>Solvent Concentration</div><div>Mass</div></td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>6.7020 mL</td><td>33.5098 mL</td><td>67.0196 mL</td></tr><tr><td>5 mM</td><td>1.3404 mL</td><td>6.7020 mL</td><td>13.4039 mL</td></tr><tr><td>10 mM</td><td>0.6702 mL</td><td>3.3510 mL</td><td>6.7020 mL</td></tr></table>				Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg	1 mM	6.7020 mL	33.5098 mL	67.0196 mL	5 mM	1.3404 mL	6.7020 mL	13.4039 mL	10 mM	0.6702 mL	3.3510 mL	6.7020 mL
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*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液，一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。																						
References		<p>[1]. Peisach, J. and W.E. Blumberg, A mechanism for the action of penicillamine in the treatment of Wilson's disease. <u>Mol Pharmacol</u>, 1969. 5(2): p. 200-9.</p> <p>[2]. Jaffe, I.A., K. Altman, and P. Merryman, The Antipyridoxine Effect of Penicillamine in Man. <u>J Clin Invest</u>, 1964. 43: p. 1869-73.</p> <p>[3]. Camp, A.V., Penicillamine in the treatment of rheumatoid arthritis. <u>Proc R Soc Med</u>, 1977. 70(2): p. 67-9.</p>																				