

产品名称：马来酸氨氯地平
 产品别名： **Amlodipine maleate**

生物活性:																								
Description	<p>Amlodipine maleate is a long-acting calcium channel blocker. Target: Calcium Channel Amlodipine is a dihydropyridine calcium antagonist (calcium ion antagonist or slow-channel blocker) that inhibits the movement of calcium ions into vascular smooth muscle cells and cardiac muscle cells. Experimental data suggest amlodipine binds to both dihydropyridine and nondihydropyridine binding sites. The contractile processes of cardiac muscle and vascular smooth muscle are dependent upon the movement of extracellular calcium ions into these cells through specific ion channels. Amlodipine inhibits calcium ion influx across cell membranes selectively, with a greater effect on vascular smooth muscle cells than on cardiac muscle cells. Negative inotropic effects, or decreased heart muscle contractility, can be detected in vitro, but such effects have not been seen in intact animals at therapeutic doses. Serum calcium concentration is not affected by amlodipine. Within the physiologic pH range, amlodipine is an ionized compound (pKa = 8.6), and its interaction with the calcium channel receptor is characterized by a gradual rate of association and dissociation with the receptor binding site, resulting in a gradual onset of effect. Amlodipine is a peripheral arterial vasodilator that acts directly on vascular smooth muscle to cause a reduction in peripheral vascular resistance and reduction in blood pressure. From Wikipedia.</p>																							
Solvent&Solubility	<p><i>In Vitro:</i> DMSO : ≥ 32 mg/mL (60.96 mM) * "≥" means soluble, but saturation unknown.</p>																							
		<table border="1"> <thead> <tr> <th style="text-align: center;">Solvent Concentration</th> <th style="text-align: center;">Mass</th> <th style="text-align: center;">1 mg</th> <th style="text-align: center;">5 mg</th> <th style="text-align: center;">10 mg</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1 mM</td> <td></td> <td style="text-align: center;">1.9049 mL</td> <td style="text-align: center;">9.5247 mL</td> <td style="text-align: center;">19.0494 mL</td> </tr> <tr> <td style="text-align: center;">5 mM</td> <td></td> <td style="text-align: center;">0.3810 mL</td> <td style="text-align: center;">1.9049 mL</td> <td style="text-align: center;">3.8099 mL</td> </tr> <tr> <td style="text-align: center;">10 mM</td> <td></td> <td style="text-align: center;">0.1905 mL</td> <td style="text-align: center;">0.9525 mL</td> <td style="text-align: center;">1.9049 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM		1.9049 mL	9.5247 mL	19.0494 mL	5 mM		0.3810 mL	1.9049 mL	3.8099 mL	10 mM		0.1905 mL	0.9525 mL	1.9049 mL		
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Preparing Stock Solutions																								
<p>*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。</p>																								
References	<p>[1]. http://en.wikipedia.org/wiki/Amlodipine</p>																							