

产品名称: **Fenoldopam Mesylate**

产品别名: 非诺多泮甲磺酸盐 ; **Fenoldopam mesylate**

生物活性:														
Description	<p>Fenoldopam(SKF 82526) mesylate is a drug and synthetic benzazepine derivative which acts as a selective D1 receptor partial agonist. Target: D1 Receptor Fenoldopam is a selective dopamine-1 (DA1) agonist with natriuretic/diuretic properties. Fenoldopam stimulated cAMP accumulation in LLC-PK1 cells in a dose-dependent manner, an effect which could be blocked by the DA1-selective antagonist Sch 23390. Although fenoldopam was more potent than DA (EC50 55.5 +/- 7.75 nM vs. 1.65 +/- 0.64 microM) in stimulating cAMP accumulation in LLC-PK1 cells, the maximum stimulation obtained by fenoldopam was only 37% of the maximum stimulation obtained by DA(Emax 13.0 +/- 2.95 pmol/mg of protein vs. 35.6 +/- 10.19 pmol/mg of protein) [1]. Fenoldopam is a selective dopamine1 (DA1) receptor agonist. Most of the DA1 receptor agonist activity of fenoldopam resides in the R-enantiomer, which also shows weaker alpha 2-adrenoceptor antagonist activity Fenoldopam produces vasodilation in vascular beds that are rich in vascular DA1 receptors [2].</p>													
Solvent&Solubility	<p><i>In Vitro:</i> DMSO : ≥ 36 mg/mL (89.58 mM) H₂O : 10 mg/mL (24.88 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.</p>													
	Preparing	<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;">2.4884 mL</td> <td style="text-align: center;">12.4421 mL</td> <td style="text-align: center;">24.8843 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM		2.4884 mL	12.4421 mL	24.8843 mL		
	Solvent Concentration	Mass	1 mg	5 mg	10 mg									
	1 mM		2.4884 mL	12.4421 mL	24.8843 mL									
Stock Solutions	5 mM	0.4977 mL	2.4884 mL	4.9769 mL										
	10 mM	0.2488 mL	1.2442 mL	2.4884 mL										
<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°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。</p>														
References	<p>[1]. Grenader, A. and D.P. Healy, Fenoldopam is a partial agonist at dopamine-1 (DA1) receptors in LLC-PK1 cells. <u>J Pharmacol Exp Ther.</u> 1991. 258(1): p. 193-8.</p> <p>[2]. Nichols, A.J., R.R. Ruffolo, Jr., and D.P. Brooks, The pharmacology of fenoldopam. <u>Am J Hypertens.</u> 1990. 3(6 Pt 2): p. 116S-119S.</p>													