

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		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].			
Solvent&Solubility		In Vitro:			
		DMSO : ≥ 36 mg/mL (89.58 mM)			
		H₂O : 10 mg/mL (24.88 mM; Need ultrasonic)			
		* "≥" means soluble, but saturation unknown.			
		<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
Preparing		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。</p> <p>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]. Grenader, A. and D.P. Healy, Fenoldopam is a partial agonist at dopamine-1 (DA1) receptors in LLC-PK1 cells. J Pharmacol Exp Ther, 1991; 258(1): p. 193-8.</p> <p>[2]. Nichols, A.J., R.R. Ruffolo, Jr., and D.P. Brooks, The pharmacology of fenoldopam. Am J Hypertens, 1990. 3(6 Pt 2): p. 116S-119S.</p>			