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产品名称: 屈西多巴

产品别名: **Droxidopa; L-DOPS; DOPS; SM5688**

生物活性:					
Description	Droxidopa(L-DOPS), the mixture of Droxidopa (w/w80%) and Pharmaceutical starch (w/w20%), acts as a prodrug to the neurotransmitters norepinephrine (noradrenaline) and epinephrine (adrenaline); Droxidopa(L-DOPS) is capable of crossing the protective blood–brain barrier[1][2].				
In Vivo	<p>The acute administration of droxidopa in PVL and BDL rats caused a significant and maintained increase in arterial pressure and mesenteric arterial resistance, with a significant decrease of mesenteric arterial and portal blood flow, without changing portal pressure and renal blood flow[1].</p> <p>Droxidopa(L-DOPS) is a pro-drug which has a structure similar to noradrenaline, but with a carboxyl group. It has no pressor effects in this form. It can be administered orally, unlike noradrenaline, and after absorption is converted by the enzyme dopa decarboxylase into noradrenaline thus increasing levels of the neurotransmitter which is identical to endogenous noradrenaline[2].</p>				
Solvent&Solubility	<i>In Vitro:</i> DMSO : 1.8 mg/mL (8.44 mM; Need ultrasonic and warming)				
	Preparing Stock Solutions	<div>SolventMass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	4.6907 mL	23.4533 mL	46.9065 mL
		5 mM	0.9381 mL	4.6907 mL	9.3813 mL
		10 mM	---	---	---
<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°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]. Coll M, et al. Droxidopa, an oral norepinephrine precursor, improves hemodynamic and renal alterations of portal hypertensive rats. Hepatology. 2012 Nov;56(5):1849-60.</p> <p>[2]. Mathias CJ. L-dihydroxyphenylserine (Droxidopa) in the treatment of orthostatic hypotension: the European experience. Clin Auton Res. 2008 Mar;18 Suppl 1:25-9.</p>				