



上海源叶生物科技有限公司
 Shanghai yuanye Bio-Technology Co., Ltd
 电话: 021-61312973 传真: 021-55068248
 网址: www.shyuanye.com
 邮箱: shyysw@sina.com

产品名称: 己酮可可碱

产品别名: **Pentoxifylline; BL-191; PTX; Oxpentifylline**

生物活性:																								
Description	<p>Pentoxifylline is a competitive nonselective phosphodiesterase inhibitor. Target: PDE Pentoxifylline is a competitive nonselective phosphodiesterase inhibitor which raises intracellular cAMP, activates PKA, inhibits TNF and leukotriene synthesis, and reduces inflammation and innate immunity. In addition, pentoxifylline improves red blood cell deformability, reduces blood viscosity and decreases the potential for platelet aggregation and thrombus formation. Pentoxifylline is also an antagonist at adenosine 2 receptors [1]. Pentoxifylline is generally well tolerated. Based on the totality of the available evidence, it is possible that pentoxifylline could have a place in the treatment of IC as a means of improving walking distance and as a complimentary treatment assuming all other essential measures such as lifestyle change, exercise and treatment for secondary prevention have been taken into account [2]. Pentoxifylline reduce AST and ALT levels and may improve liver histological scores in patients with NALFD/NASH, but did not appear to affect cytokines. Large, prospective, and well-designed randomized, controlled studies are needed to address this issue [3].</p>																							
Solvent&Solubility	<p>In Vitro: H₂O : 93.3 mg/mL (335.24 mM; Need ultrasonic and warming) DMSO : ≥ 2.8 mg/mL (10.06 mM) * "≥" means soluble, but saturation unknown.</p>																							
	Preparing Stock Solutions	<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;">3.5931 mL</td> <td style="text-align: center;">17.9656 mL</td> <td style="text-align: center;">35.9312 mL</td> </tr> <tr> <td style="text-align: center;">5 mM</td> <td></td> <td style="text-align: center;">0.7186 mL</td> <td style="text-align: center;">3.5931 mL</td> <td style="text-align: center;">7.1862 mL</td> </tr> <tr> <td style="text-align: center;">10 mM</td> <td></td> <td style="text-align: center;">0.3593 mL</td> <td style="text-align: center;">1.7966 mL</td> <td style="text-align: center;">3.5931 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM		3.5931 mL	17.9656 mL	35.9312 mL	5 mM		0.7186 mL	3.5931 mL	7.1862 mL	10 mM		0.3593 mL	1.7966 mL	3.5931 mL		
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<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]. http://en.wikipedia.org/wiki/Pentoxifylline [2]. Salhiyyah, K., et al., Pentoxifylline for intermittent claudication. Cochrane Database Syst Rev, 2012. 1: p. CD005262. [3]. Li, W., et al., Systematic review on the treatment of pentoxifylline in patients with non-alcoholic fatty liver disease. Lipids Health Dis, 2011. 10: p. 49.</p>																							