

产品名称: **LX1606**

产品别名: **Telotristat etiprate; 特罗司他马尿酸盐; LX1606 Hippurate**

生物活性:																		
Description	Telotristat etiprate (LX1606 Hippurate) is a novel, orally-delivered inhibitor of tryptophan hydroxylase that reduces serotonin production.																	
In Vitro	Telotristat ethyl (15, 50, 150, 300 mg/kg, po, qd) reduces serotonin content in the periphery, but not in the brain of the mice. Telotristat ethyl (200 mg/kg po, qd) prevents the increase in blood neutrophil counts that is observed after TNBS challenge, provides significant protection in a mouse model of inflammatory bowel disease. Telotristat ethyl (200 mg/kg po, qd) protects the mouse IBD model confirmed by histopathology evaluation[1]. Telotristat ethyl (15, 50, 150, 300 mg/kg) depletes 5-HT from the jejunum but not the brain. But Telotristat ethyl (200 mg/kg, p.o.) does not deplete enteric neuronal serotonin (5-HT), or alter constitutive gastrointestinal motility in mice. Telotristat ethyl (200 mg/kg) alleviates the severity of trinitrobenzene sulfonic acid (TNBS)-induced colitis[2].																	
Solvent&Solubility	<p>In Vitro:</p> <p>DMSO : ≥ 28 mg/mL (37.13 mM)</p> <p>* "≥" means soluble, but saturation unknown.</p>																	
	<table border="1"> <thead> <tr> <th rowspan="2">Preparing Stock Solutions</th> <th>Solvent Mass Concentration</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>1.3260 mL</td> <td>6.6300 mL</td> <td>13.2600 mL</td> </tr> <tr> <td>5 mM</td> <td>0.2652 mL</td> <td>1.3260 mL</td> <td>2.6520 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1326 mL</td> <td>0.6630 mL</td> <td>1.3260 mL</td> </tr> </tbody> </table>	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	1 mM	1.3260 mL	6.6300 mL	13.2600 mL	5 mM	0.2652 mL	1.3260 mL	2.6520 mL	10 mM	0.1326 mL	0.6630 mL	1.3260 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。</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]. Tamas Oravec, et al. LX1606 (aka LX1032), a Novel Inhibitor of Serotonin Synthesis, Alleviates Development of Inflammatory Bowel Disease in a Preclinical Model.</p> <p>[2]. Margolis, K.G., et al., Pharmacological reduction of mucosal but not neuronal serotonin opposes inflammation in mouse intestine. Gut, 2013.</p>																	
实验参考:																		
Animal Administration	<p>For studies of the effects of peripheral TPH inhibitors on gut and brain 5-HT concentrations, LP-920540 is formulated in 0.1% Tween 80 in 0.25% methylcellulose and administered to mice once daily via oral gavage at 10 mL/kg for 4 consecutive days. Telotristat ethyl is formulated in 15% cyclodextrin (CaptisolTM, pH 3-4) or 0.25% methylcellulose and given to mice once daily via oral gavage at 10 mL/kg for 4 consecutive days. Whole brain, jejunum and colon (mesentery fat removed, gut lumen opened and blotted dry) are collected, snap frozen, and stored at -80°C for future. LP-920540, Telotristat ethyl, LP-778914, LP-778920 and vehicle control are also formulated with 0.5% methylcellulose at appropriate doses in coded vials. The contents of the coded vials are given by oral gavage in amounts determined by the weights of the recipient mice. After the experiments, results are analyzed. [2]</p>																	
	[1]. Tamas Oravec, et al. LX1606 (aka LX1032), a Novel Inhibitor of Serotonin Synthesis, Alleviates																	

References

Development of Inflammatory Bowel Disease in a Preclinical Model.

[2]. Margolis, K.G., et al., Pharmacological reduction of mucosal but not neuronal serotonin opposes inflammation in mouse intestine. Gut, 2013.



源叶生物