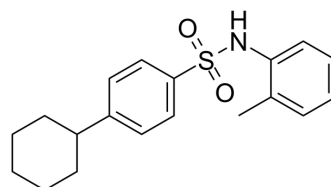


## LP-471756

<b>Cat. No.:</b>	HY-119168		
<b>CAS No.:</b>	413605-11-5		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>23</sub> NO <sub>2</sub> S		
<b>Molecular Weight:</b>	329.46		
<b>Target:</b>	GPR139		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (758.82 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM		3.0353 mL	15.1763 mL	30.3527 mL
		5 mM		0.6071 mL	3.0353 mL	6.0705 mL
10 mM			0.3035 mL	1.5176 mL	3.0353 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 2.08 mg/mL (6.31 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.31 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (6.31 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	LP-471756 is a potent GPR139 antagonist with an IC <sub>50</sub> value of 640 nM. LP-471756 inhibits LP-360924-stimulated cAMP production <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 640 nM (GPR139) <sup>[1]</sup>
<b>In Vitro</b>	LP-471756 (0-1000 μM) inhibits specifically LP-360924-stimulated cAMP production in GPR139 cells with an IC <sub>50</sub> value of 0.64 μM <sup>[2]</sup> .

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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- [1]. Vedel L, et al. Pharmacology and function of the orphan GPR139 G protein-coupled receptor. *Basic Clin Pharmacol Toxicol*. 2020 Jun;126 Suppl 6(Suppl 6):35-46.
- [2]. Hu LA, et al. Identification of surrogate agonists and antagonists for orphan G-protein-coupled receptor GPR139. *J Biomol Screen*. 2009 Aug;14(7):789-97.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA