

## 产品名称: VU 0357121

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### 生物活性:

<b>Description</b>	VU0357121 is a novel positive and highly selective allosteric modulator (PAM) of mGlu5R with EC50 of 33 nM. IC50 Value: 33 nM(EC50) Target: mGluR5 in vitro: VU0357121 do not bind at the MPEP allosteric site of mGlu5, thus do not possess mGlu5 NAM activity. The A809V/rmGlu5 mutation inhibited the ability of VU0357121 to shift the glutamate concentration?response curve, whereas the response to VU0357121 is not altered by the F585I/rmGlu5 mutation. VU0357121 show weaker cooperativity in the Ca2+ mobilization assay in the low-expressing HEK293A-mGlu5 cell line. in vivo:																							
<b>Solvent&amp;Solubility</b>	<p><b>In Vitro:</b></p> <p>DMSO : <math>\geq 50 \text{ mg/mL}</math> (163.76 mM)</p> <p>* "<math>\geq</math>" means soluble, but saturation unknown.</p> <table border="1" data-bbox="446 736 1351 961"><thead><tr><th rowspan="2">Preparing Stock Solutions</th><th>Solvent</th><th>Mass</th><th rowspan="2">1 mg</th><th rowspan="2">5 mg</th><th rowspan="2">10 mg</th></tr><tr><th>Concentration</th><th></th></tr></thead><tbody><tr><td>1 mM</td><td></td><td>3.2753 mL</td><td>16.3763 mL</td><td>32.7525 mL</td></tr><tr><td>5 mM</td><td></td><td>0.6551 mL</td><td>3.2753 mL</td><td>6.5505 mL</td></tr><tr><td>10 mM</td><td></td><td>0.3275 mL</td><td>1.6376 mL</td><td>3.2753 mL</td></tr></tbody></table> <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> <p><b>In Vivo:</b></p> <p>请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 <b>In Vitro</b> 方式配制澄清的储备液, 再依次添加助溶剂:</p> <p>——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶</p> <p>1. 请依序添加每种溶剂: 10% DMSO → 40% PEG300 → 5% Tween-80 → 45% saline Solubility: 2.5 mg/mL (8.19 mM); Suspended solution; Need ultrasonic 此方案可获得 2.5 mg/mL (8.19 mM) 的均匀悬浊液, 悬浊液可用于口服和腹腔注射。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中, 混合均匀。向上述体系中加入 50 μL Tween-80, 混合均匀; 然后继续加入 450 μL 生理盐水定容至 1 mL。</p> <p>2. 请依序添加每种溶剂: 10% DMSO → 90% corn oil Solubility: <math>\geq 2.5 \text{ mg/mL}</math> (8.19 mM); Clear solution 此方案可获得 <math>\geq 2.5 \text{ mg/mL}</math> (8.19 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p> <p><b>References</b></p> <p>[1]. Hammond, Alexis S.; Rodriguez, Alice L.; Townsend, Steven D. et al. <u>Discovery of a Novel Chemical Class of mGlu5 Allosteric Ligands with Distinct Modes of Pharmacology</u>. ACS Chemical Neuroscience (2010), 1(10), 702-716.</p>	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg	Concentration		1 mM		3.2753 mL	16.3763 mL	32.7525 mL	5 mM		0.6551 mL	3.2753 mL	6.5505 mL	10 mM		0.3275 mL	1.6376 mL	3.2753 mL
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