VU 0255035

Cat. No.: HY-108234

CAS No.: 1135243-19-4

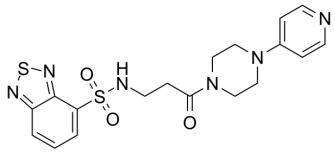
Molecular Formula: $C_{18}H_{20}N_6O_3S_2$

Molecular Weight: 432.52

Target: mAChR

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (144.50 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3120 mL	11.5602 mL	23.1203 mL
	5 mM	0.4624 mL	2.3120 mL	4.6241 mL
	10 mM	0.2312 mL	1.1560 mL	2.3120 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

VU 0255035 is a highly selective, competitive and brain penetrant muscarinic M1 receptor antagonist with an IC_{50} of 130 nM. VU 0255035 reduces pilocarpine-induced seizures in mice. VU0255035 is used to examine the role of the M1 receptor in diverse situations[1].

REFERENCES

[1]. Sheffler DJ, et al. A novel selective muscarinic acetylcholine receptor subtype 1 antagonist reduces seizures without impairing hippocampus-dependent learning. Mol Pharmacol. 2009 Aug;76(2):356-68.

Caution: Product has not been fully validated for medical applications. For research use only.

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