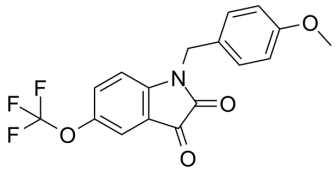
VU 0238429

Cat. No.:	HY-12157
CAS No.:	1160247-92-6
Molecular Formula:	$C_{17}H_{12}F_3NO_4$
Molecular Weight:	351.28
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 150 mg/mL (427.01 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.8467 mL	14.2337 mL	28.4673 mL
5 mM	0.5693 mL	2.8467 mL	5.6935 mL
10 mM	0.2847 mL	1.4234 mL	2.8467 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: ≥ 2.5 mg/mL (7.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

VU 0238429 is positive allosteric modulator of muscarinic acetylcholine receptor subtype 5 (mAChR5 or M5), with an EC_{50} of 1.16 μM.

IC_{50} & Target

EC50: 1.16 μM (mAChR5)[1].

In Vitro

VU 0238429 is positive allosteric modulator of mAChR5 (M5), with an EC_{50} of 1.16 μM, >30-fold selectivity versus M1 and M3, with no M2 or M4 potentiator activity[1].

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

CUSTOMER VALIDATION

- Mol Oncol. 2024 Feb;18(2):386-414.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Bridges TM, et al. Discovery of the first highly M5-preferring muscarinic acetylcholine receptor ligand, an M5 positive allosteric modulator derived from a series of 5-trifluoromethoxy N-benzyl isatins.

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