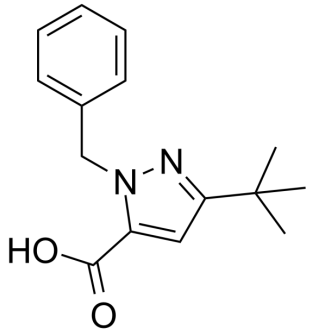
SORT-PGRN interaction inhibitor 1

Cat. No.:	HY-115213
CAS No.:	100957-85-5
Molecular Formula:	$C_{15}H_{18}N_2O_2$
Molecular Weight:	258.32
Target:	Neurotensin Receptor
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 : 100 mg/mL (387.12 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8712 mL	19.3558 mL	38.7117 mL
	5 mM	0.7742 mL	3.8712 mL	7.7423 mL
	10 mM	0.3871 mL	1.9356 mL	3.8712 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 (9.68 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	SORT-PGRN interaction inhibitor 1 is a potent inhibitor of the sortilin-progranulin interaction with an IC_{50} of 2 μM[1].
IC_{50} & Target	IC50: 2 μM (Sortilin-progranulin interaction)[1]
In Vitro	SORT-PGRN interaction inhibitor 1 (Compound 2) with sufficient potency and physicochemical properties to enable co-crystallization with sortilin[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shawn J Stachel, et al. Identification of potent inhibitors of the sortilin-progranulin interaction. Bioorg Med Chem Lett. 2020 Sep 1;30(17):127403.

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