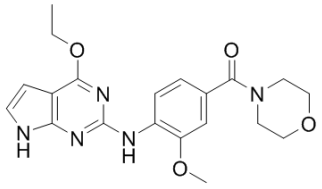
LRRK2 inhibitor 1

Cat. No.:	HY-111493
CAS No.:	1802525-61-6
Molecular Formula:	$C_{20}H_{23}N_5O_4$
Molecular Weight:	397.43
Target:	LRRK2
Pathway:	Autophagy
Storage:	Please store the product under the recommended conditions in the COA.



Solvent & Solubility

In Vitro

DMSO : 62.5 mg/mL (157.26 mM; Need ultrasonic)
H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5162 mL	12.5808 mL	25.1617 mL
	5 mM	0.5032 mL	2.5162 mL	5.0323 mL
	10 mM	0.2516 mL	1.2581 mL	2.5162 mL

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

In Vivo

1. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: 2.08 mg/mL (5.23 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: **10% DMSO >> 90% corn oil**
   Solubility: ≥ 2.08 mg/mL (5.23 mM); Clear solution
3. Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
   Solubility: ≥ 2.08 mg/mL (5.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	LRRK2 inhibitor 1 is a potent, selective and oral **LRRK2** inhibitor with an **pIC_{50}** of 6.8 nM.
IC_{50} & Target	pIC50: 6.8 nM (LRRK2)[1]

REFERENCES

[1]. Ding X, et al. Discovery of 4-ethoxy-7H-pyrrolo[2,3-d]pyrimidin-2-amines as potent, selective and orally bioavailable LRRK2 inhibitors. Bioorg Med Chem Lett. 2018 May 15;28(9):1615-1620.

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