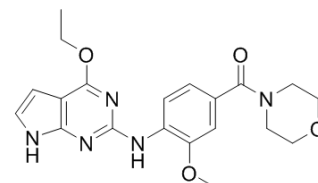


LRRK2 inhibitor 1

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-111493 | | |
| CAS No.: | 1802525-61-6 | | |
| Molecular Formula: | C ₂₀ H ₂₃ N ₅ O ₄ | | |
| Molecular Weight: | 397.43 | | |
| Target: | LRRK2 | | |
| Pathway: | Autophagy | | |
| 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 : 62.5 mg/mL (157.26 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 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

- 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
- 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
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 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 pIC₅₀ of 6.8 nM.

IC₅₀ & 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.

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

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