CZC-54252 hydrochloride

Cat. No.: HY-B0792A

CAS No.: 1784253-05-9

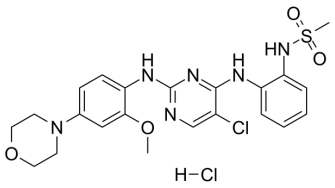
Molecular Formula: $C_{22}H_{26}Cl_2N_6O_4S$

Molecular Weight: 541.45

Target: LRRK2

Pathway: Autophagy

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (61.56 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8469 mL	9.2345 mL	18.4689 mL
	5 mM	0.3694 mL	1.8469 mL	3.6938 mL
	10 mM	0.1847 mL	0.9234 mL	1.8469 mL

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

BIOLOGICAL ACTIVITY

Description

CZC-54252 hydrochloride is a potent and selective LRRK2 inhibitor with IC_{50}s of 1.28 nM and 1.85 nM for wild-type and G2019S LRRK2, respectively. G2019S LRRK2-induced human neuronal injury is attenuated by CZC-54252 hydrochloride with an EC_{50} of ~1 nM.CZC-54252 hydrochloride has a neuroprotective activity[1].

IC_{50} & Target

IC50: 1.28 nM (Wild-type LRRK2) and 1.85 nM (G2019S LRRK2)[1]

REFERENCES

[1]. Nigel Ramsden, et al. Chemoproteomics-based design of potent LRRK2-selective lead compounds that attenuate Parkinson's disease-related toxicity in human neurons. ACS Chem Biol. 2011 Oct 21;6(10):1021-8.

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

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