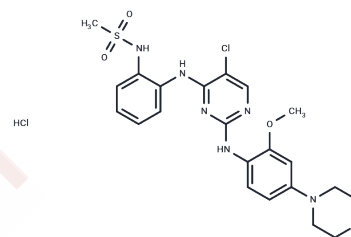


## CZC-54252 hydrochloride

## Chemical Properties

CAS No. :	1784253-05-9
Formula:	C <sub>22</sub> H <sub>26</sub> Cl <sub>2</sub> N <sub>6</sub> O <sub>4</sub> S
Molecular Weight:	541.45
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CZC-54252 hydrochloride is a selective inhibitor of LRRK2 with IC <sub>50</sub> s of 1.85 nM and 1.28 nM for wild-type and G2019S LRRK2. CZC-54252 hydrochloride has a neuroprotective activity and attenuates G2019S LRRK2-induced human neuronal injury with an EC <sub>50</sub> of 1 nM.
Targets(IC <sub>50</sub> )	LRRK2
In vitro	CZC-54252 hydrochloride(1.6 nM) fully reverses G2019S LRRK2-induced human neuronal injury to wild-type levels. CZC-54252 hydrochloride inhibits the recombinant human wild-type LRRK2 with an IC <sub>50</sub> ranging from 1 to 5 nM. CZC-54252 hydrochloride inhibits the G2019S mutant with an IC <sub>50</sub> ranging from 2 to 7 nM in a TF-FRET assay[2].

## Solubility Information

Solubility	DMSO: 30 mg/mL (55.41 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0369 mL	0.1847 mL	0.3694 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Ramsden N, 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.

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