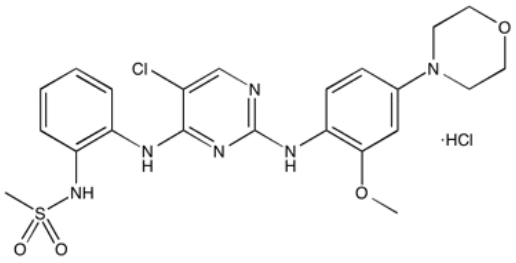
Catalog # 10-1421

CZC-54252 HCl

CAS# 1784253-05-9

N-[[[5-Chloro-2-[[2-methoxy-4-(4-(4-morpholinyl)phenyl]amino]-4-pyrimidinyl]amino]-phenyl]methanesulfonamide hydrochloride

Lot # X105024



Novel, potent and selective inhibitor of the leucine-rich repeat kinase-2 (LRRK2), IC_{50} = 1.28 nM. Also inhibits G2019S mutant LRRK2, IC_{50} = 1.85 nM[1]. Attenuates the neuronal damage elicited by the action of LRRK2 G2019S mutant in primary human neurons (EC_{50} = 1 nM)[1]. The G2019S mutant is a common mutation found in familial Parkinson's disease patients[2]. Cell permeable.

1) Ramsden *et al*. (2011), *Chemoproteomics-based design of potent LRRK2-selective lead compounds that attenuate Parkinson's disease-related toxicity in human neurons*; ACS Chem. Biol., **6** 1021
2) Kramer *et al*. (2012), *Small molecule kinase inhibitors for LRRK2 and their application to Parkinson's disease models*; ACS Chem. Neurosci., **3** 151

PHYSICAL DATA

Molecular Weight:	541.46
Molecular Formula:	$C_{22}H_{25}ClN_6O_4S \cdot HCl$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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