

Product Data Sheet

Product Name: CZC-25146 hydrochloride

Cat. No.: GC35792

Chemical Properties

Cas. No. 1330003-04-7

SMILES CS(=O)(NC1=CC=CC=C1NC2=NC(NC3=CC=C(N4CCOCC4)C=C3OC)=NC=C2F)=O.Cl

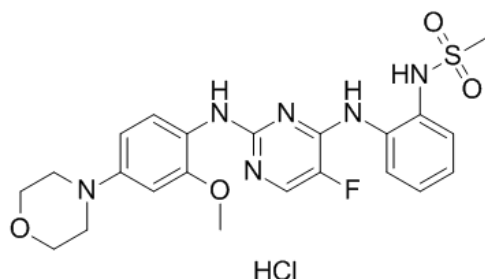
Formula C22H26ClFN6O4S M.Wt 525

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

CZC-25146 HCl is a potent, selective and metabolically stable LRRK2 inhibitor with IC₅₀ of 4.76 nM/6.87 nM for wild type LRRK2 and G2019S LRRK2 respectively. IC₅₀ value: 4.76 nM/6.87 nM (wild type/G2019S LRRK2) [1]. Target: LRRK2. CZC-25146 displayed a very clean profile; it inhibited only five kinases (PLK4, GAK, TNK1, CAMKK2 and PIP4K2C) with high potency, none of which have been classified as predictors of genotoxicity or hematopoietic toxicity. CZC-25146 neither caused cytotoxicity in human cortical neurons at concentrations below 5 μM over a seven-day treatment in

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

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culture nor did it block neuronal development in vitro. CZC-25146 possesses favorable pharmacokinetic properties, such as a volume of distribution of 5.4 L/kg and a clearance of 2.3 L/hr/kg that render it suitable for in-vivo studies.

[1]. 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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