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## Product Data Sheet

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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  $C_{22}H_{26}ClFN_6O_4S$  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 is a potent inhibitor of leucine-rich repeat kinase 2 (LRRK2;  $IC_{50} = 4.76$  nM for the human recombinant kinase).<sup>1</sup> It also inhibits LRRK2<sup>G2019S</sup>, a mutant linked to neurotoxicity and Parkinson's disease, with an  $IC_{50}$  value of 6.87 nM. CZC-25146 is selective for LRRK2 over a panel of kinases in HeLa cell lysates, Jurkat/Ramos mixed cell lysates, as well as whole mouse brain extracts ( $IC_{50}s = >2$  μM). It reduces LRRK2<sup>G2019S</sup>-induced cell injury in rat primary cortical neurons.

1. Ramsden, N.G., Perrin, J., Ren, Z., et al. Chemoproteomics-based design of potent LRRK2-selective lead compounds that attenuate Parkinson's disease-related toxicity in human neurons ACS Chem Biol. 6(10)1021-1028(2011)

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

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