TOCRIS
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Print Date: Jun 20th 2019

Certificate of Analysis

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Product Name: **CZC 25146** **Catalog No.: 6071** **Batch No.: 2**

CAS Number: 1191911-26-8

IUPAC Name: *N*-[2-[[5-Fluoro-2-[[2-methoxy-4-(4-morpholinyl)phenyl]amino]-4-pyrimidinyl]amino]phenyl]methanesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{25}FN_6O_4S$

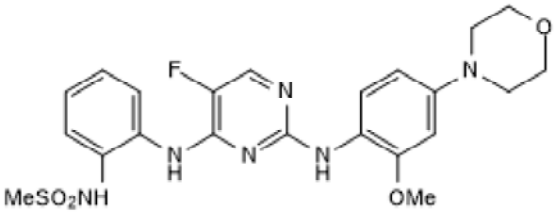
Batch Molecular Weight: 488.54

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.09	5.16	17.2
Found	54.3	5.18	17.01

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Product Information

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IUPAC Name: *N*-[2-[[5-Fluoro-2-[[2-methoxy-4-(4-morpholinyl)phenyl]amino]-4-pyrimidinyl]amino]phenyl]methanesulfonamide

Description:

Potent LRRK2 inhibitor (IC_{50} values are 4.76 and 6.87 nM for for wild-type and G2019S mutant forms of LRRK2, respectively). Also inhibits PLK4, GAK, TNK1, CAMKK2 and PIP4K2. Attenuates mutant LRRK2-induced injury of cultured rodent and human neurons. Cell permeable.

Physical and Chemical Properties:

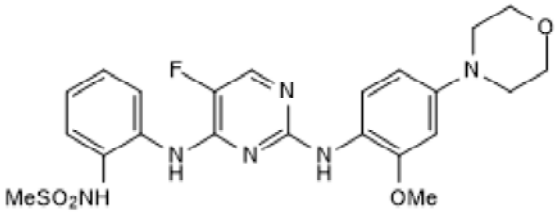
Batch Molecular Formula: $C_{22}H_{25}FN_6O_4S$

Batch Molecular Weight: 488.54

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

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. PMID: 21812418.

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