

Product Name: JH-II-127

Catalog No.: 6289

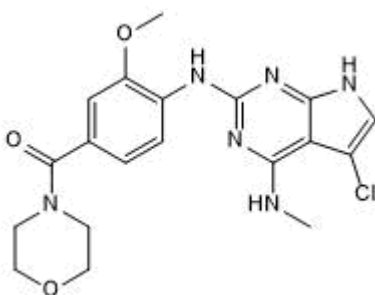
Batch No.: 1

CAS Number: 1700693-08-8

IUPAC Name: [4-[[5-Chloro-4-(methylamino)-7H-pyrrolo[2,3-d]pyrimidin-2-yl]amino]-3-methoxyphenyl]-4-morpholinyl-methanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁ClN₆O₃
Batch Molecular Weight: 416.87
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.74	5.08	20.16
Found	54.67	5.09	20.12

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent and selective LRRK2 inhibitor (IC₅₀ values are 2.2, 6.6 and 47.7 nM for G2019S-mutant, wild-type and A2016T-mutant LRRK2, respectively). Selective for LRRK2 over a panel of 138 kinases. Brain penetrant and orally bioavailable.

Physical and Chemical Properties:

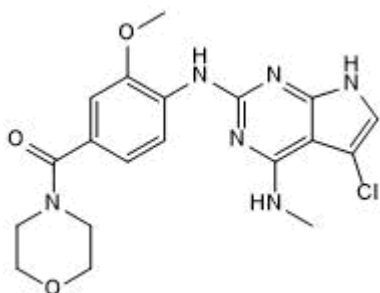
Batch Molecular Formula: C₁₉H₂₁ClN₆O₃

Batch Molecular Weight: 416.87

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Hatcher *et al* (2015) Discovery of a pyrrolopyrimidine (JH-II-127), a highly potent, selective, and brain penetrant LRRK2 inhibitor. ACS Med.Chem.Lett. **6** 584. PMID: 26005538.

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.

Licensing Information:

Sold under license from Dana-Farber Cancer Institute.

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