

Certificate of Analysis

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Product Name: GSK2578215A

Catalog No.: 4629

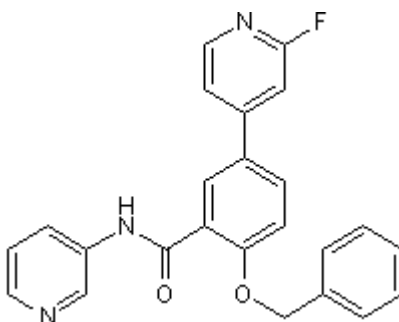
Batch No.: 1

CAS Number: 1285515-21-0

IUPAC Name: 5-(2-Fluoro-4-pyridinyl)-2-(phenylmethoxy)-N-3-pyridinylbenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₈FN₃O₂
Batch Molecular Weight: 399.42
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.17	4.54	10.52
Found	72	4.53	10.61

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

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Description:

Potent LRRK2 inhibitor (IC₅₀ values are 8.9 and 10.1 nM for LRRK2[G2019S] mutant and wild-type LRRK2 respectively). Displays selectivity for LRRK2 over a panel of 460 other kinases. Blocks Ser910 and Ser935 phosphorylation in vitro and in peripheral tissues in vivo. Brain penetrant.

Physical and Chemical Properties:

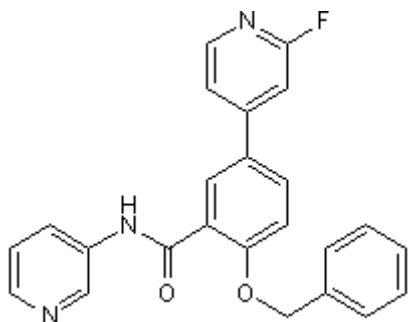
Batch Molecular Formula: C₂₄H₁₈FN₃O₂

Batch Molecular Weight: 399.42

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Reith *et al* (2012) GSK2578215A; a potent and highly selective 2-arylmethoxy-5-substituent-N-arylbenzamide LRRK2 kinase inhibitor. *Bioorg.Med.Chem.Lett.* **22** 5625. PMID: 22863203.

Storage: Store at RT

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.

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