

Product Name: GSK 583

Catalog No.: 6480

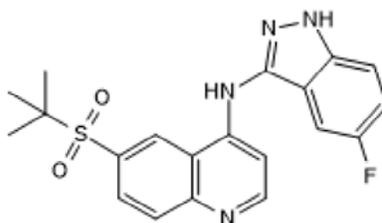
Batch No.: 1

CAS Number: 1346547-00-9

IUPAC Name: 6-[(1,1-Dimethylethyl)sulfonyl]-N-(5-fluoro-1*H*-indazol-3-yl)-4-quinolinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₉FN₄O₂S
Batch Molecular Weight: 398.45
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 60.29 | 4.81 | 14.06 |
| Found | 60.22 | 4.76 | 13.88 |

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

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Description:

Potent RIPK2 inhibitor (IC₅₀ values are 2 and 5 nM at rat and human kinases, respectively). Displays selectivity for RIP2K over p38α, VEGFR2 and a panel of 300 kinases. Exhibits some inhibition at BRK and Aurora A. Also displays similar binding affinity, but no detectable functional activity at RIP3. Active in vivo. Moderately orally bioavailable and cell permeable.

Physical and Chemical Properties:

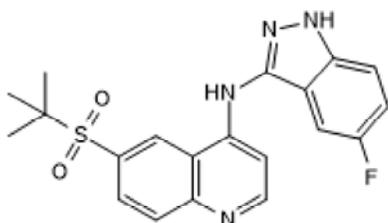
Batch Molecular Formula: C₂₀H₁₉FN₄O₂S

Batch Molecular Weight: 398.45

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Haile et al (2016) The identification and pharmacological characterization of 6-(*tert*-butylsulfonyl)-N-(5-fluoro-1H-indazol-3-yl)quinolin-4-amine (GSK583), a highly potent and selective inhibitor of RIP2 kinase. *J.Med.Chem.* **59** 4867. PMID: 27109867.

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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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