

Product Name: SGC AAK1 1

Catalog No.: 6528

Batch No.: 1

CAS Number: 2247894-32-0

IUPAC Name: *N*-(6-(3-((*N,N*-diethylsulfamoyl)amino)phenyl)-1*H*-indazol-3-yl)cyclopropanecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₅N₅O₃S·¼H₂O

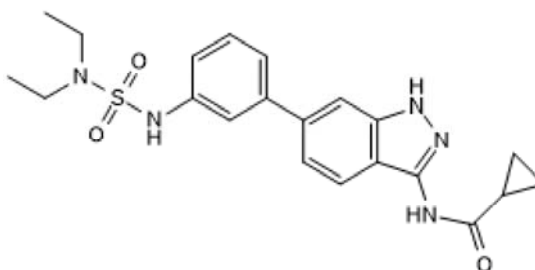
Batch Molecular Weight: 432.02

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Dichloromethane:Methanol [95:5])

HPLC: Shows 98% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.38	5.95	16.21
Found	58.46	5.9	15.96

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

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Description:

Adaptor-associated protein kinase 1 (AAK1) and BMP-2-inducible protein kinase (BMP2K) inhibitor (IC₅₀ values are 233 nM and 1.48 μM for AAK1 and BMP2K, respectively). Inhibits AAK1-dependent phosphorylation of AP2M1. Activates Wnt signaling.

Physical and Chemical Properties:

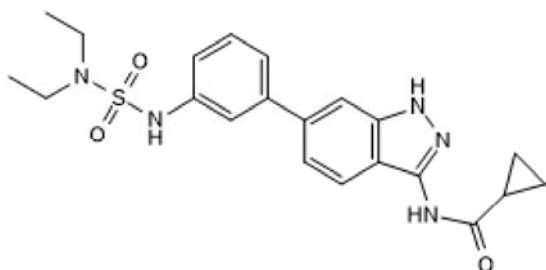
Batch Molecular Formula: C₂₁H₂₅N₅O₃S.½H₂O

Batch Molecular Weight: 432.02

Physical Appearance: Beige 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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the SGC-AAK1-1 probe summary on the SGC website.

References:

Agajanian et al (2018) AAK1 inhibits WNT signaling by promoting clathrin-mediated endocytosis of LRP6. View pre-publication manuscript .

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