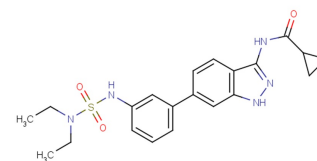


SGC-AAK1-1

Chemical Properties

CAS No.:	2247894-32-0
Formula:	C ₂₁ H ₂₅ N ₅ O ₃ S
Molecular Weight:	427.52
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	SGC-AAK1-1 is a potent and selective inhibitor of AAK1 (AP2 associated kinase 1) (IC ₅₀ of 270 nM and a K _i of 9 nM), and is a chemical probe.
Targets(IC ₅₀)	AAKki: 9 nM
In vitro	phosphorylation of AP2M1 (T156) significantly reduced by SGC-AAK1-1 (1.25 μM) and activates WNT-driven BAR activity compared in a dose-dependent manner in HT1080 cells. SGC-AAK1-1 blocks AAK1 kinase activity, resulting in increased β-catenin protein stability and β-catenin-dependent transcription.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.339 mL	11.695 mL	23.391 mL
5 mM	0.468 mL	2.339 mL	4.678 mL
10 mM	0.234 mL	1.17 mL	2.339 mL
50 mM	0.047 mL	0.234 mL	0.468 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Agajanian MJ, et al. WNT Activates the AAK1 Kinase to Promote Clathrin-Mediated Endocytosis of LRP6 and Establish a Negative Feedback Loop. Cell Rep. 2019 Jan 2;26(1):79-93.e8.

Inhibitors · Natural Compounds · Compound Libraries

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