

**Product Name** : AAK1 inhibitor 1

**Synonyms** : SGC-AAK1-1

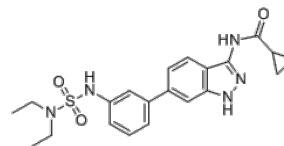
**Cat No.** : M13613

**CAS Number** : 2247894-32-0

**Molecular Formula** : C<sub>21</sub>H<sub>25</sub>N<sub>5</sub>O<sub>3</sub>S

**Formula Weight** : 427.52

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



**Description** : AAK1 inhibitor 1 (SGC-AAK1-1) is a potent, selective inhibitor of AAK1 and BMP2K/BIKE ((BMP-2 inducible kinase)) that potently targets the ATP-binding site (AAK1  $K_i$  =9.1 nM, BIKE  $K_i$  = 17 nM); displays excellent kinase selectivity, only three kinases (RIOK1  $K_D$ =72 nM, RIOK3  $K_D$ =290 nM, and PIP5K1C  $K_D$ =260 nM) were observed to bind SGC-AAK1-1 within 30-fold of the  $K_D$  of AAK1 in a KINOMEScan assay; has potency for ectopically expressed full-length AAK1- and BIKE-Nluc fusion proteins (AAK1  $IC_{50}$ =230 nM; BIKE  $IC_{50}$ =1.5  $\mu$ M)in a live cell NanoBRET assay.

**Pathway** : Others

**Target** : AAK1

**Receptor** : AAK1

**Solubility** : —

**SMILES** : CCN(CC)S(=O)(=O)NC1=CC=CC(=C1)C2=CC3=C(C=C2)C(=NN3)NC(=O)C4CC4

**Storage** : (-20°C)

**Stability** :  $\geq$  2 years

**Reference** :

1. Agajanian MJ, et al. Cell Rep. 2019 Jan 2;26(1):79-93.e8.