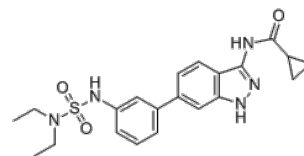


**Product Name** : SGC-AAK1-1  
**Cat. No.** : PC-35853  
**CAS No.** : 2247894-32-0  
**Molecular Formula** : C<sub>21</sub>H<sub>25</sub>N<sub>5</sub>O<sub>3</sub>S  
**Molecular Weight** : 427.523  
**Target** : AP2-associated Kinase 1 (AAK1)  
**Solubility** : 10 mM in DMSO



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

## Biological Activity

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<sub>i</sub> =9.1 nM, BIKE K<sub>i</sub> = 17 nM).

SGC-AAK1-1 displays excellent kinase selectivity, only three kinases (RIOK1 K<sub>D</sub>=72 nM, RIOK3 K<sub>D</sub>=290 nM, and PIP5K1C K<sub>D</sub>=260 nM) were observed to bind SGC-AAK1-1 within 30-fold of the K<sub>D</sub> of AAK1 in a KINOMEScan assay.

SGC-AAK1-1 has potency for ectopically expressed full-length AAK1- and BIKE-Nluc fusion proteins (AAK1 IC<sub>50</sub>=230 nM; BIKE IC<sub>50</sub>=1.5 μM) in a live cell NanoBRET assay.

## References

