

5-(2-amino-1-(4-morpholinophenyl)-1H-benzo[d]imidazol-6-yl)-N-(2-fluorophenyl)-2-methoxypyridine-3-sulfonamide

**CAS Registry No.:** 1416334-69-4

**Smiles String:**

```
NC(N1C2=CC=C(N3CCOCC3)C=C2)=NC4=C1C=C(C5=CC(S(=O)(=O)C6=CC=C(C=C6)F)=O)=C(OC)N=C5)C=C4
```

**Molecular Weight:** 574.63

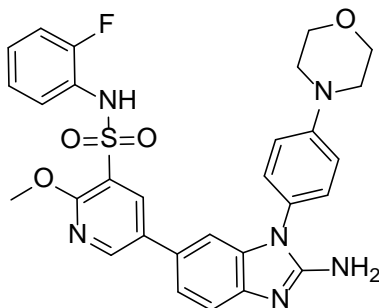
**Molecular Formula:** C<sub>29</sub>H<sub>27</sub>FN<sub>6</sub>O<sub>4</sub>S

**Lot Number:** Refer to vial

**<sup>1</sup>H-NMR:** Available on request

**HPLC (Purity):** > 95.0% @ 254 nm

**ES-MS:** Available on request



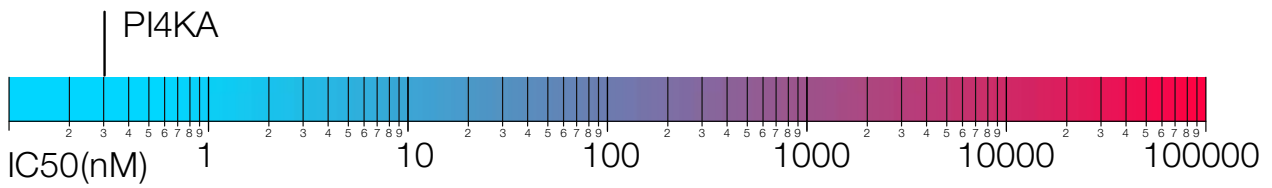
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## Description:

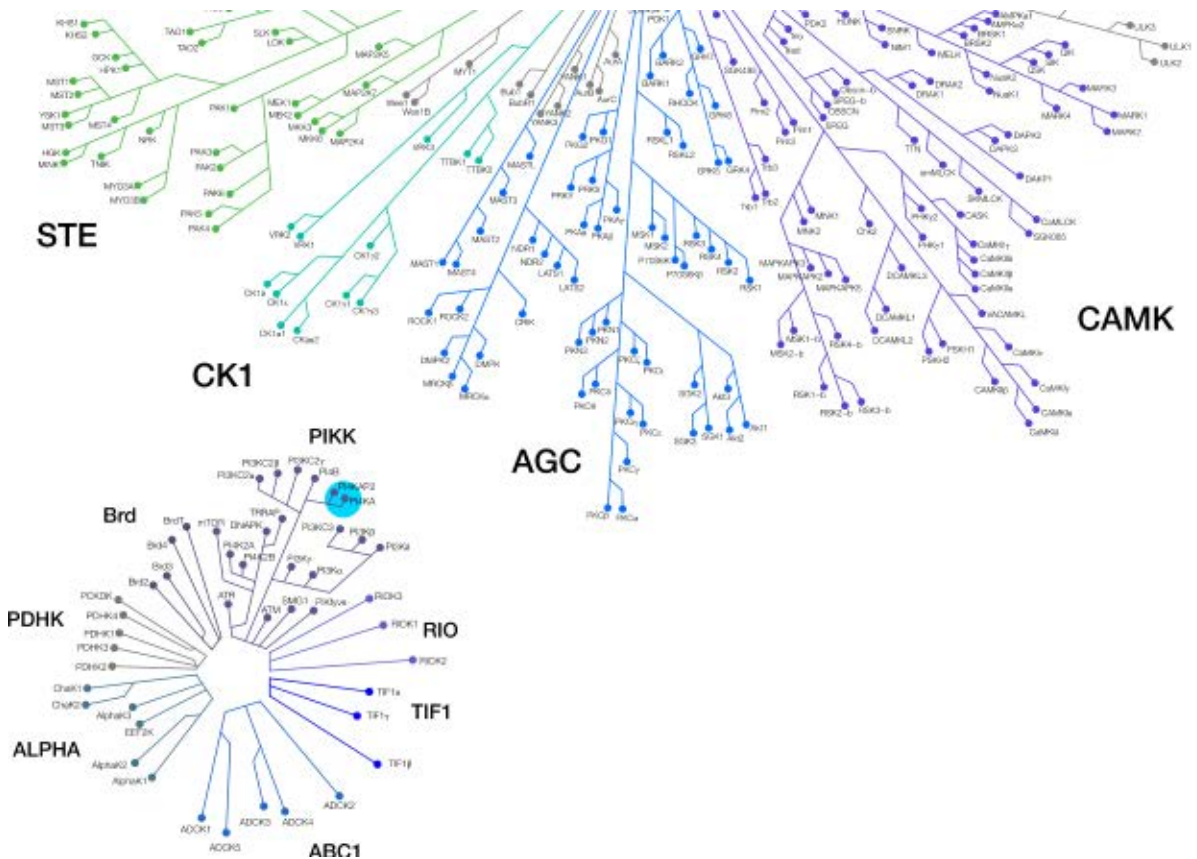
GSK-A1 is a potent inhibitor of PI4KA. In vitro using HEK-AT1 cells, GSK-A1 had an IC<sub>50</sub> of about 3 nM.

Phosphatidylinositol 4-kinase type III $\alpha$  (PI4KA) is a host factor essential for hepatitis C virus replication and hence is a target for drug development. RNAi studies have shown that PI4KA is a mandatory host factor in HCV replication. Down-regulation of PI4KA appears to be reasonably tolerated by cultured cell models and results.

## Biological Activity



## Kinome Mapping



## Shipping and Storage Temperature

### Shipping:

Ambient

### Storage:

2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

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## Solubility

Soluble in DMSO

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## Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.5746	5.7463	11.4926	28.7315

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## References

1. Bojjireddy N, Botyanszki J, Hammond G, Creech D, Peterson R, Kemp DC, Snead M, Brown R, Morrison A, Wilson S, Harrison S, Moore C, Balla T. Pharmacological and genetic targeting of the PI4KA enzyme reveals its important role in maintaining plasma membrane phosphatidylinositol 4-phosphate and phosphatidylinositol 4,5-bisphosphate levels. *J Biol Chem.* 2014 Feb 28;289(9):6120-32. doi: 10.1074/jbc.M113.531426. Epub 2014 Jan 10. PubMed PMID: 24415756; PubMed Central PMCID: PMC3937678.

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## Ordering Information

To order more of this or any other SYNkinase compound, go to [synkinase.com](http://synkinase.com), Call us Toll Free (US Only) at 1- 877-854-6273 or email [orders@synkinase.com](mailto:orders@synkinase.com).

Product Datasheet (Rev. 1.1)