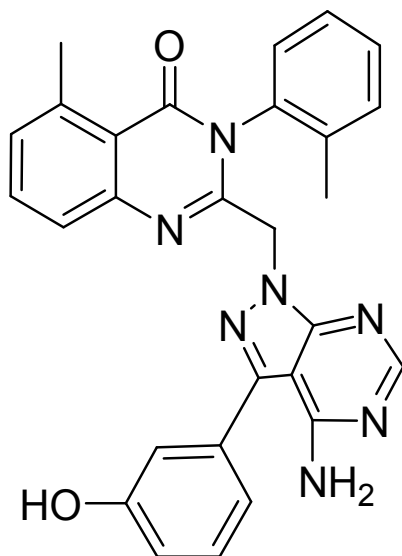


PIK-294

SYN-1098



2-((4-amino-3-(3-hydroxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)methyl)-5-methyl-3-o-tolylquinazolin-4(3H)-one

CAS Registry No.: 900185-02-6

Smiles String:

Cc1ccccc1n2c(nc3cccc(c3c2=O)C)Cn4c5c(c(n4)c6cccc(c6)O)c(ncn5)N

Molecular Weight: 489.53

Molecular Formula: C₂₈H₂₃N₇O₂

Lot Number: Refer to vial

¹H-NMR: Available on request

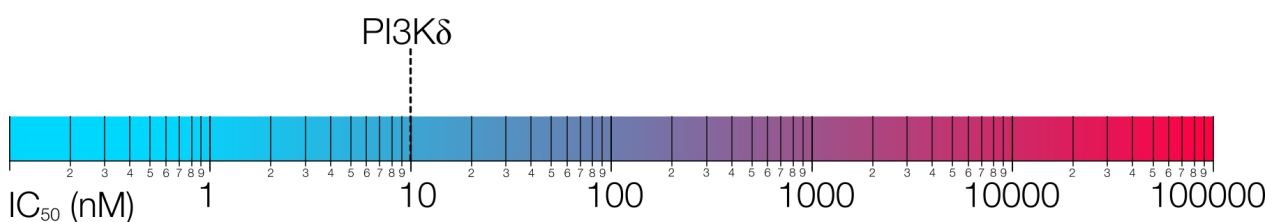
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

Description:

PIK-294 is a PI3 Kinase inhibitor that is 20- to 60-fold more potent than the parent compound, PIK-293. It is one of the most potent p110delta-selective inhibitors that has been reported, with an IC₅₀ of 10nM.

Biological Activity



Kinome Mapping

The diagram illustrates the Kinome Map, a comprehensive network of protein kinases and their interactions. The central hub is labeled **SYN** (Synthesis). The map is organized into several functional groups, each represented by a different color and labeled with a category name:

- TKL** (Tyrosine Kinase/Like): Top left, green/yellow.
- STE** (Serine/Threonine Kinase): Middle left, green.
- CK1** (Casein Kinase): Bottom left, green.
- PIKK** (Phosphoinositide 3-kinase/Like Kinase): Bottom left, blue.
- Brd** (Bromodomain): Bottom left, blue.
- PDHK** (Phosphatidylesterase/Hydrolase Kinase): Bottom left, blue.
- AGC** (Adenylate Cyclase/G-protein Coupled Receptor Kinase): Bottom center, blue.
- CK2** (Casein Kinase 2): Bottom center, blue.
- Other** (Other Kinases): Right side, purple.
- CAMK** (Calcium/Calmodulin-dependent Kinase): Right side, purple.

The map shows a dense network of connections between these groups, indicating complex signaling pathways and cross-talk. The central **SYN** hub is a prominent feature, with numerous lines radiating outwards to various kinases across the map.

Shipping and Storage Temperature

Shipping:

Ambient

Storage:

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

Solubility

DMSO 98mg/mL, Ethanol <1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4895	4.8953	9.7906	24.4765

References

1. Knight ZA, Gonzalez B, Feldman ME, Zunder ER, Goldenberg DD, Williams O, Loewith R, Stokoe D, Balla A, Toth B, Balla T, Weiss WA, Williams RL, Shokat KM. A pharmacological map of the PI3-K family defines a role for p110alpha in insulin signaling. Cell. 2006 May 19;125(4):733-47. Epub 2006 Apr 27.

Ordering Information

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

Product Datasheet (Rev. 1.1)