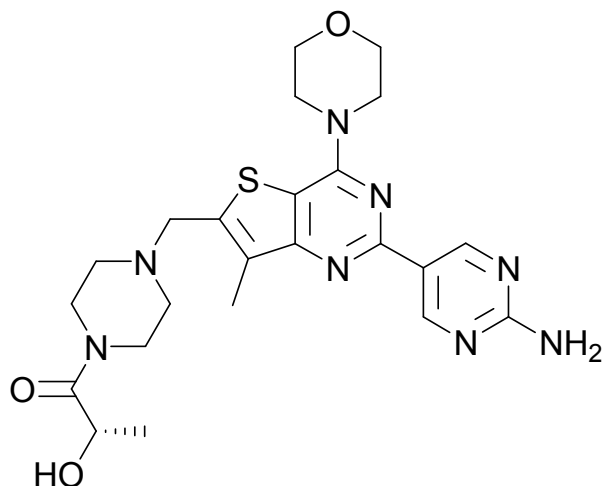


RG7422

SYN-1150



(S)-1-(4-((2-(2-aminopyrimidin-5-yl)-7-methyl-4-morpholinothieno[3,2-d]pyrimidin-6-yl)methyl)piperazin-1-yl)-2-hydroxypropanoic acid

CAS Registry No.: 1032754-93-0

Smiles String:

Cc1c(sc2c1nc(nc2N3CCOCC3)c4cnc(nc4N)CN5CCN(CC5)C(=O)[C@H](C)O

Molecular Weight: 498.6

Molecular Formula: C₂₃H₃₀N₈O₃S

Lot Number: Refer to vial

¹H-NMR: Available on request

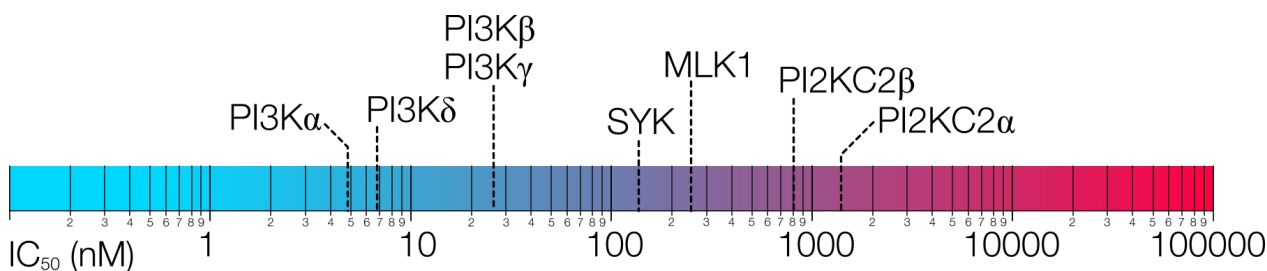
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

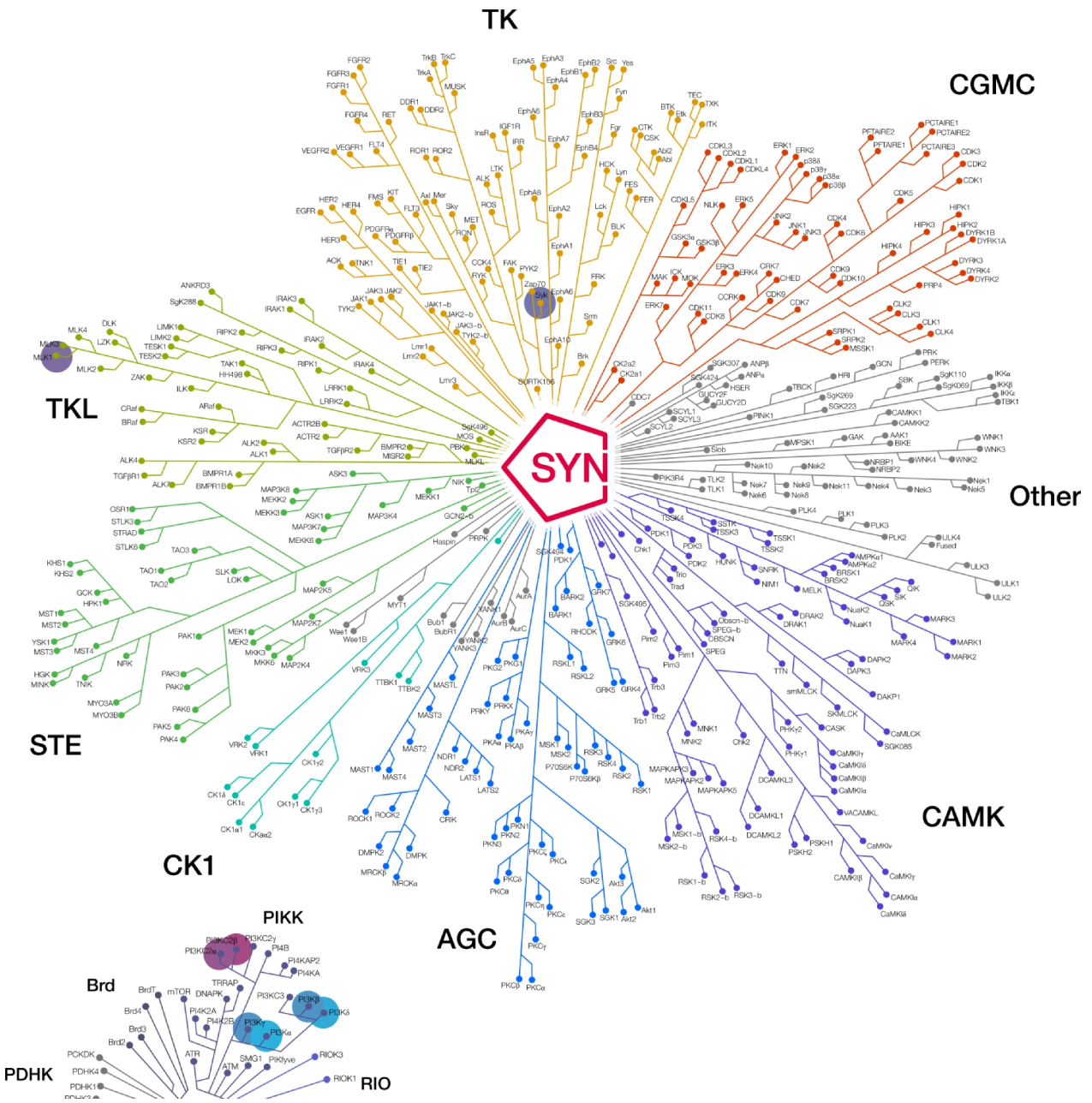
Description:

GDC-0980 (RG7422) is a selective, dual PI3 Kinase and mTOR Kinase inhibitor with IC₅₀ values of 5, 27, 7, and 14 nM for PI3K α - δ respectively. It inhibits mTOR with a K_i of 17 nM.

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

Solubility

DMSO 20mg/mL, Ethanol <1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4986	4.9860	9.9720	24.9300

References

1. Sutherlin DP, Bao L, Berry M, Castanedo G, Chuckowree I, Dotson J, Folks A, Friedman L, Goldsmith R, Gunzner J, Heffron T, Lesnick J, Lewis C, Mathieu S, Murray J, Nonomiya J, Pang J, Pegg N, Prior WW, Rouge L, Salphati L, Sampath D, Tian Q, Tsui V, Wan NC, Wang S, Wei B, Wiesmann C, Wu P, Zhu BY, Olivero A. Discovery of a potent, selective, and orally available class I phosphatidylinositol 3-kinase (PI3K)/mammalian target of rapamycin (mTOR) kinase inhibitor (GDC-0980) for the treatment of cancer. *J Med Chem.* 2011 Nov 10;54(21):7579-87. doi: 10.1021/jm2009327. Epub 2011 Oct 7.

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)