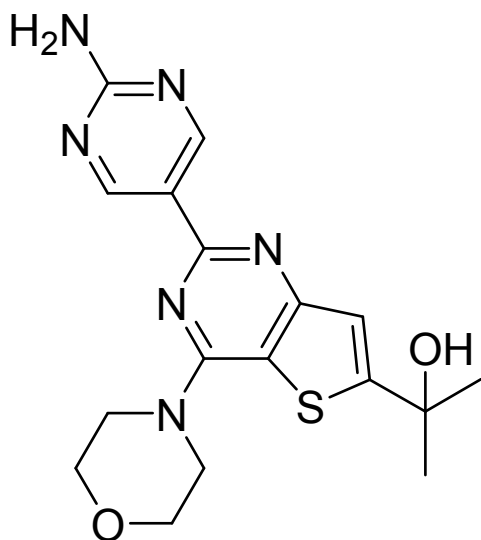


GNE-493

SYN-1115



2-(2-(2-aminopyrimidin-5-yl)-4-morpholinothieno[3,2-d]pyrimidin-6-yl)propan-2-ol

CAS Registry No.: 1033735-94-2

Smiles String:

CC(C)(c1cc2c(s1)c(nc(n2)c3cnc(nc3)N)N4COC4)O

Molecular Weight: 372.44

Molecular Formula: C₁₇H₂₀N₆O₂S

Lot Number: Refer to vial

¹H-NMR: Available on request

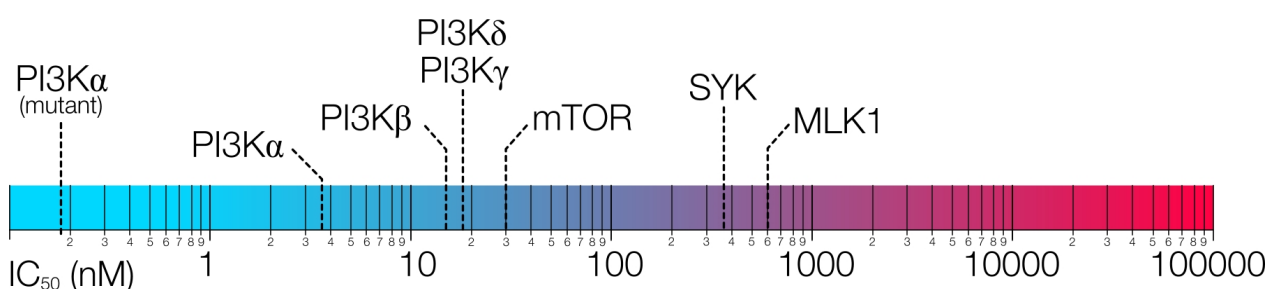
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

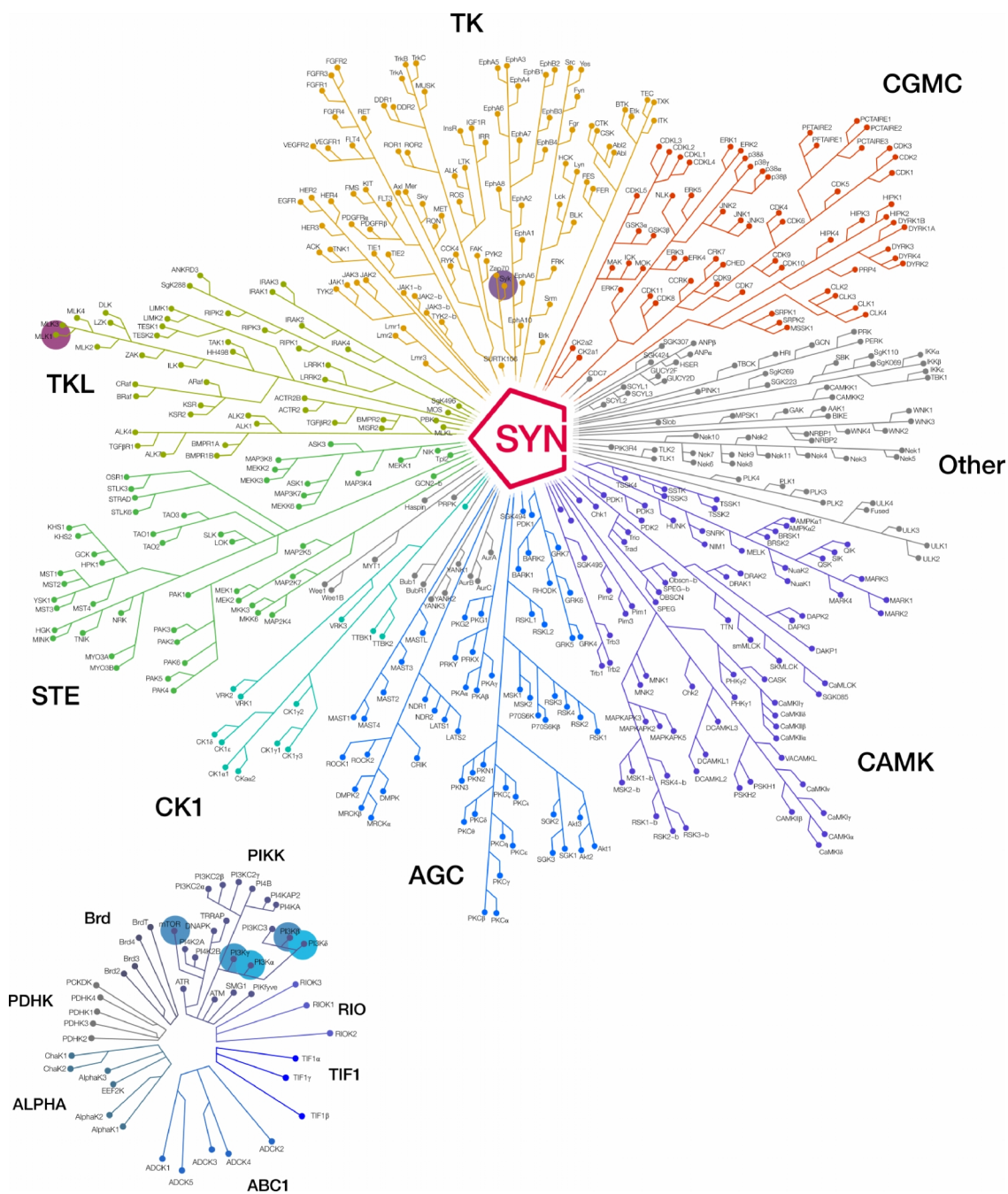
Description:

GNE-493 is a potent, selective, and orally available pan-PI3-kinase and dual pan-PI3-kinase/mTOR inhibitor for the treatment of cancer.

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

15 mM in DMSO

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3725	3.7250	7.4500	18.6250

References

1. Sutherlin DP, Sampath D, Berry M, Castanedo G, Chang Z, Chuckowree I, Dotson J, Folkes A, Friedman L, Goldsmith R, Heffron T, Lee L, Lesnick J, Lewis C, Mathieu S, Nonomiya J, Olivero A, Pang J, Prior WW, Salphati L, Sideris S, Tian Q, Tsui V, Wan NC, Wang S, Wiesmann C, Wong S, Zhu BY. Discovery of (thienopyrimidin-2-yl)aminopyrimidines as potent, selective, and orally available pan-PI3-kinase and dual pan-PI3-kinase/mTOR inhibitors for the treatment of cancer. *J Med Chem.* 2010 Feb 11;53(3):1086-97. doi: 10.1021/jm901284w.
2. Heffron TP, Wei B, Olivero A, Staben ST, Tsui V, Do S, Dotson J, Folkes AJ, Goldsmith P, Goldsmith R, Gunzner J, Lesnick J, Lewis C, Mathieu S, Nonomiya J, Shuttleworth S, Sutherlin DP, Wan NC, Wang S, Wiesmann C, Zhu BY. Rational design of phosphoinositide 3-kinase α inhibitors that exhibit selectivity over the phosphoinositide 3-kinase β isoform. *J Med Chem.* 2011 Nov 24;54(22):7815-33. doi: 10.1021/jm2007084. Epub 2011 Oct 21.
3. Sutherlin DP, Sampath D, Berry M, Castanedo G, Chang Z, Chuckowree I, Dotson J, Folkes A, Friedman L, Goldsmith R, Heffron T, Lee L, Lesnick J, Lewis C, Mathieu S, Nonomiya J, Olivero A, Pang J, Prior WW, Salphati L, Sideris S, Tian Q, Tsui V, Wan NC, Wang S, Wiesmann C, Wong S, Zhu BY. Discovery of (thienopyrimidin-2-yl)aminopyrimidines as potent, selective, and orally available pan-PI3-kinase and dual pan-PI3-kinase/mTOR inhibitors for the treatment of cancer. *J Med Chem.* 2010 Feb 11;53(3):1086-97. doi: 10.1021/jm901284w.

Ordering Information

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Product Datasheet (Rev. 1.1)