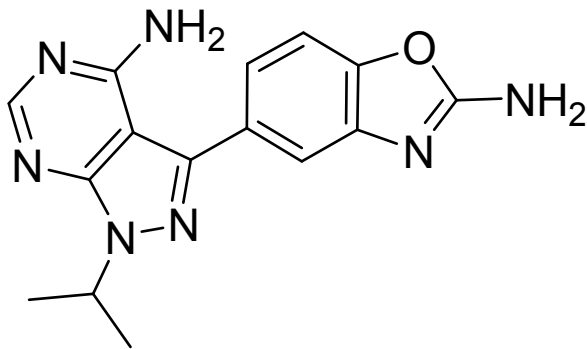


MLN0128

SYN-1157



3-(2-aminobenzoxazol-5-yl)-1-isopropyl-1H-pyrazolo[3,4-d]pyrimidin-4-amine

CAS Registry No.: 1224844-38-5

Smiles String:

CC(C)n1c2c(c(n1)c3ccc4c(c3)nc(o4)N)c(ncn2)N

Molecular Weight: 309.33

Molecular Formula: C₁₅H₁₅N₇O

Lot Number: Refer to vial

¹H-NMR: Available on request

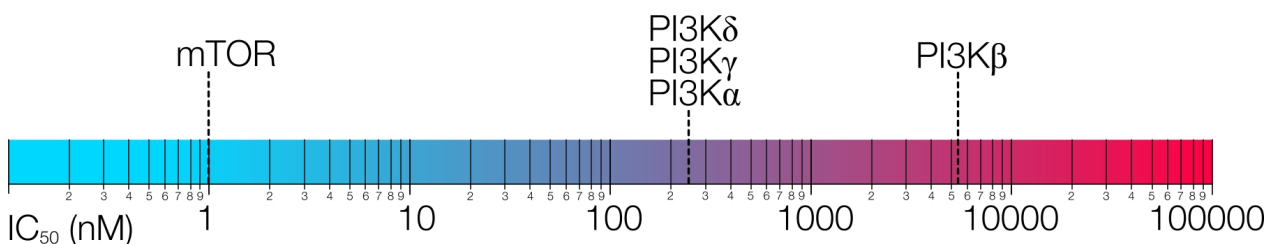
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

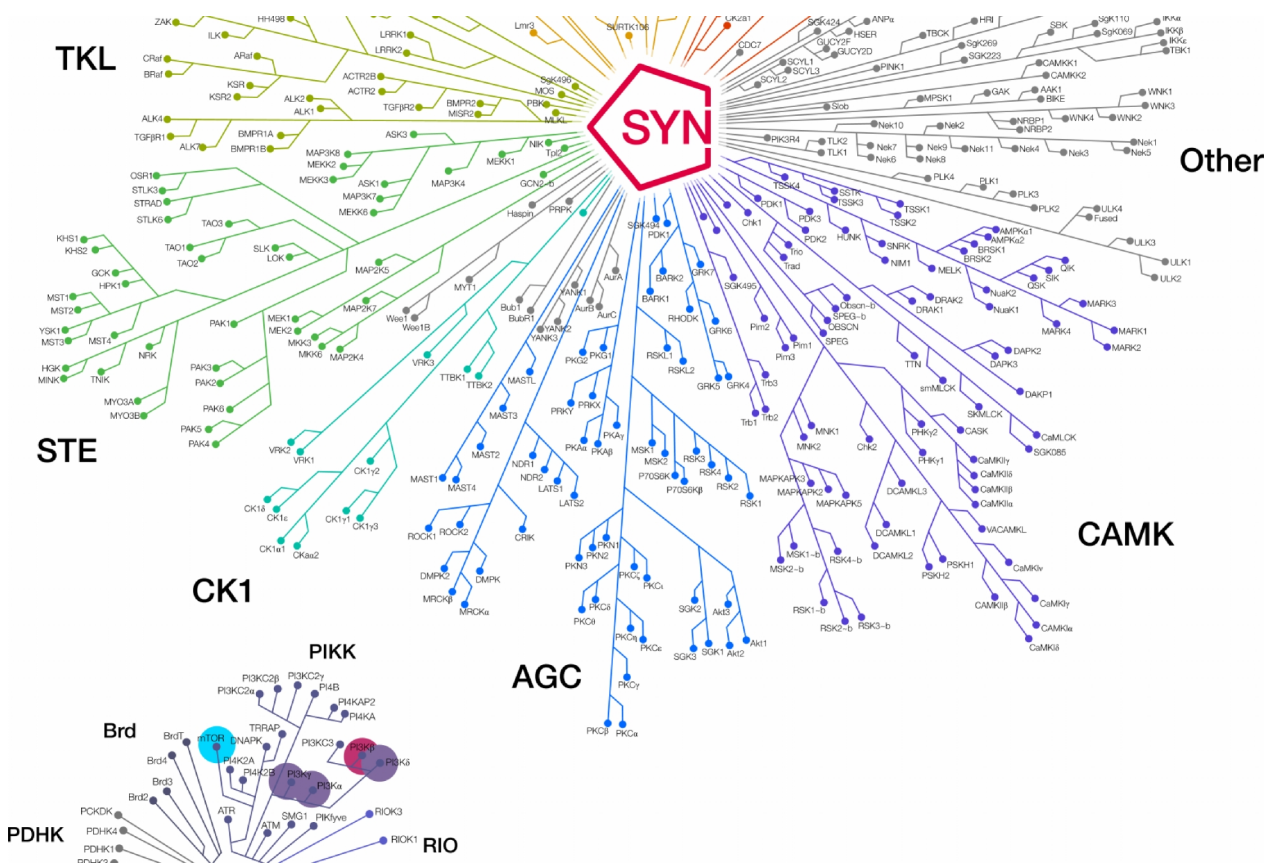
Description:

MLN0128 is a potent and selective mTOR inhibitor with an IC₅₀ of 1 nM; >200-fold less potent to class I PI3K isoforms, superior in blocking mTORC1/2 and sensitive to pro-invasion genes (vs Rapamycin).

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 62mg/mL, Ethanol 2mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3094	3.0940	6.1880	15.4700

References

1. García-García C, Ibrahim YH, Serra V, Calvo MT, Guzmán M, Grueso J, Aura C, Pérez J, Jessen K, Liu Y, Rommel C, Tabernero J, Baselga J, Scaltriti M. Dual mTORC1/2 and HER2 blockade results in antitumor activity in preclinical models of breast cancer resistant to anti-HER2 therapy. Clin Cancer Res. 2012 May 1;18(9):2603-12. doi: 10.1158/1078-0432.CCR-11-2750. Epub 2012 Mar 8. PubMed PMID: 22407832.

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)