

KU0063794

SYN-1050

(5-(2-((2S,6R)-2,6-dimethylmorpholino)-4-morpholinopyrido[2,3-d]pyrimidin-7-yl)-2-methoxyphenyl)methanol

CAS Registry No.: 938440-64-3

Smiles String:

C[C@@H]1CN(C[C@@H](O1)C)c2nc3c(ccc(n3)c4ccc(c(c4)CO)OC)c(n2)N5CCOCC5

Molecular Weight: 465.54

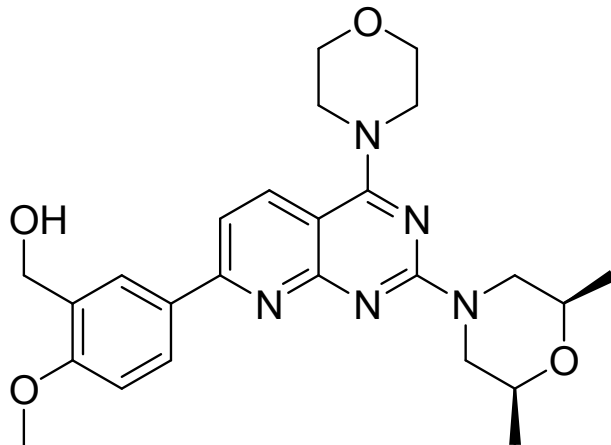
Molecular Formula: C₂₅H₃₁N₅O₄

Lot Number: Refer to vial

¹H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

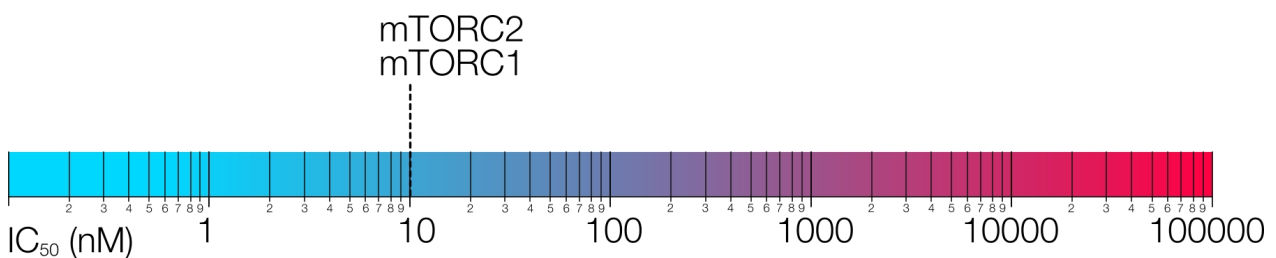
ES-MS: Available on request



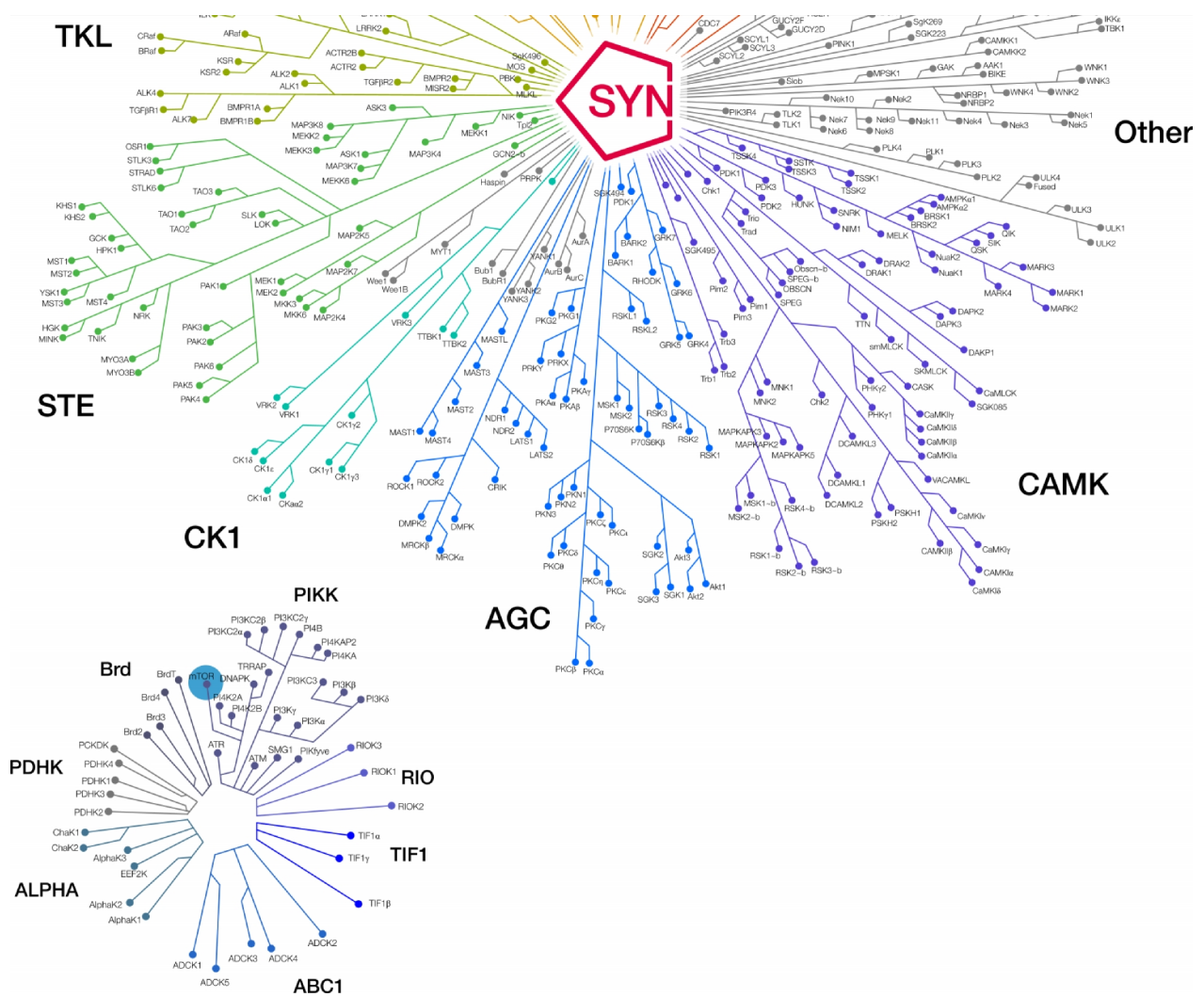
Description:

KU0063794 is a highly specific inhibitor of the mammalian target of rapamycin (mTOR). It inhibits both mTORC1 and mTORC2 with an IC₅₀ of approximately 10 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 16mg/mL, Ethanol <1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4656	4.6560	9.3120	23.2800

References

1. García-Martínez JM, Moran J, Clarke RG, Gray A, Cosulich SC, Chresta CM, Alessi DR. Ku-0063794 is a specific inhibitor of the mammalian target of rapamycin (mTOR). *Biochem J.* 2009 Jun 12;421(1):29-42. doi: 10.1042/BJ20090489. PubMed PMID: 19402821; PubMed Central PMCID: PMC2708931.

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)