

**AZD8055**

**SYN-1166**

(5-(2,4-bis((S)-3-methylmorpholino)pyrido[2,3-d]pyrimidin-7-yl)-2-methoxyphenyl)methanol

CAS Registry No.: 1009298-09-2

Smiles String:

C[C@H]1COCCN1c2c3ccc(nc3nc(n2)N4COC[C@@H]4C)c5ccc(c(c5)CO)OC

Molecular Weight: 465.54

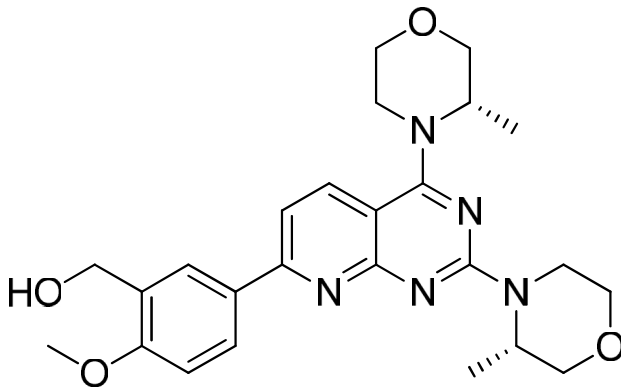
Molecular Formula: C<sub>25</sub>H<sub>31</sub>N<sub>5</sub>O<sub>4</sub>

Lot Number: Refer to vial

<sup>1</sup>H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

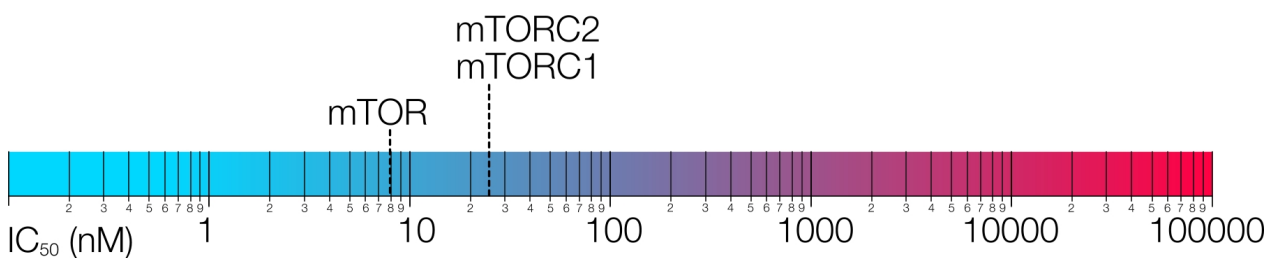
ES-MS: Available on request



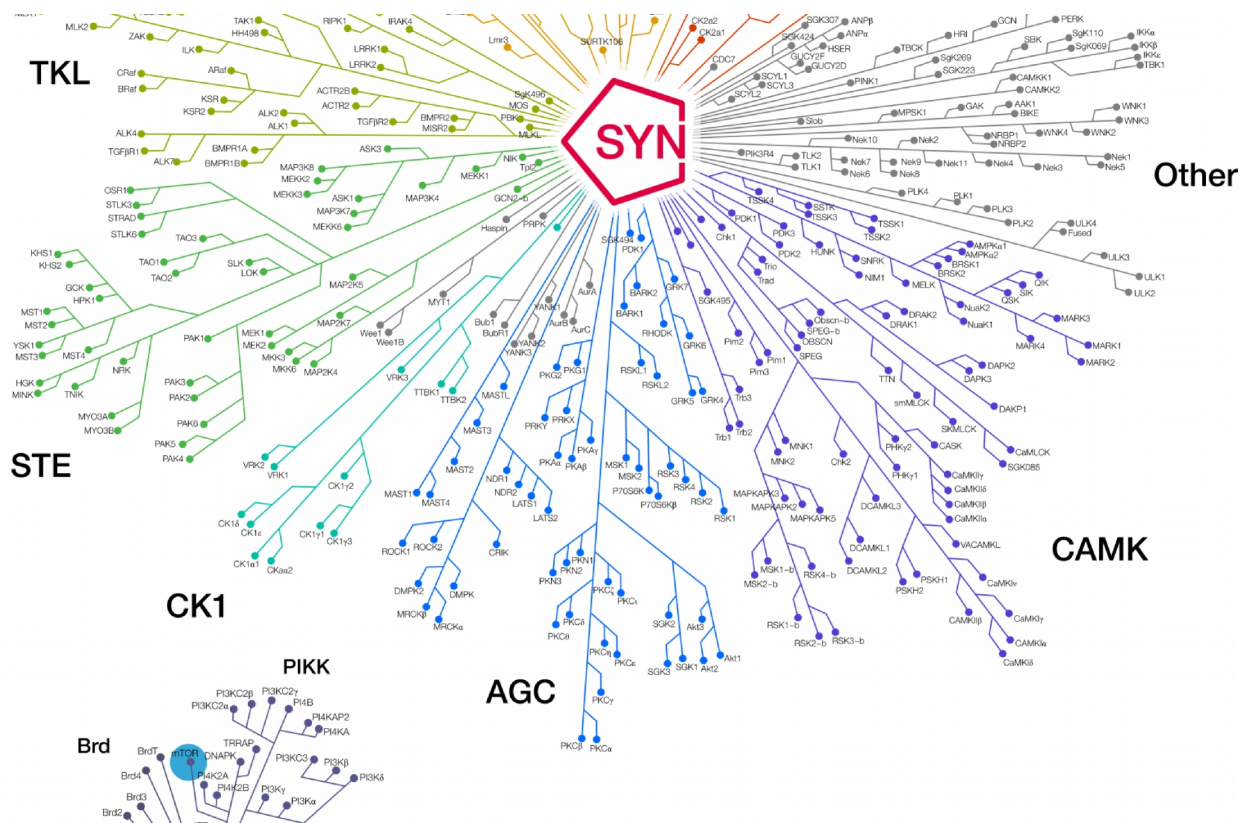
## Description:

AZD8055 is a novel ATP-competitive inhibitor of mTOR kinase activity with an IC<sub>50</sub> of 0.8 nM. It shows excellent selectivity (~1,000-fold) against all class I phosphatidylinositol 3-kinase (PI3K) isoforms and other members of the PI3K-like kinase family.

## 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 93mg/mL, Ethanol 3mg/mL

## Preparing Stock Solutions

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

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## References

1. García-Echeverría C. Allosteric and ATP-competitive kinase inhibitors of mTOR for cancer treatment. *Bioorg Med Chem Lett.* 2010 Aug 1;20(15):4308-12. doi: 10.1016/j.bmcl.2010.05.099. Epub 2010 Jun 1. Review. PubMed PMID: 20561789.

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## Ordering Information

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

Product Datasheet (Rev. 1.1)