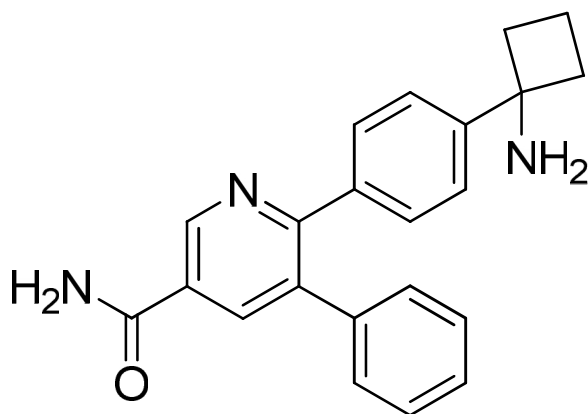


AZD-26

SYN-1160



6-(4-(1-aminocyclobutyl)phenyl)-5-phenylnicotinamide

CAS Registry No.: 1357158-81-6

Smiles String:

c1ccc(cc1)c2cc(cnc2c3ccc(cc3)C4(CCC4)N)C(=O)N

Molecular Weight: 343.42

Molecular Formula: C₂₂H₂₁N₃O

Lot Number: Refer to vial

¹H-NMR: Available on request

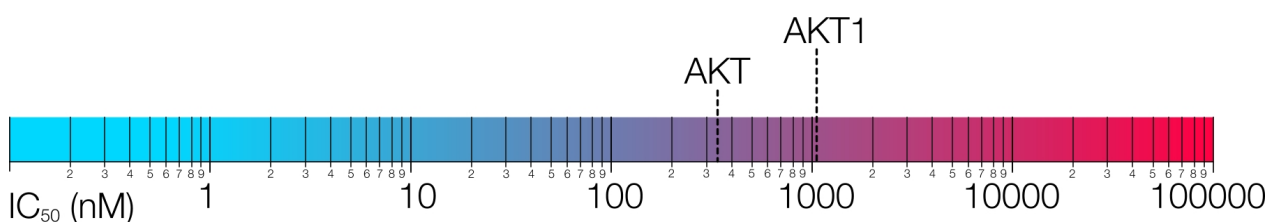
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

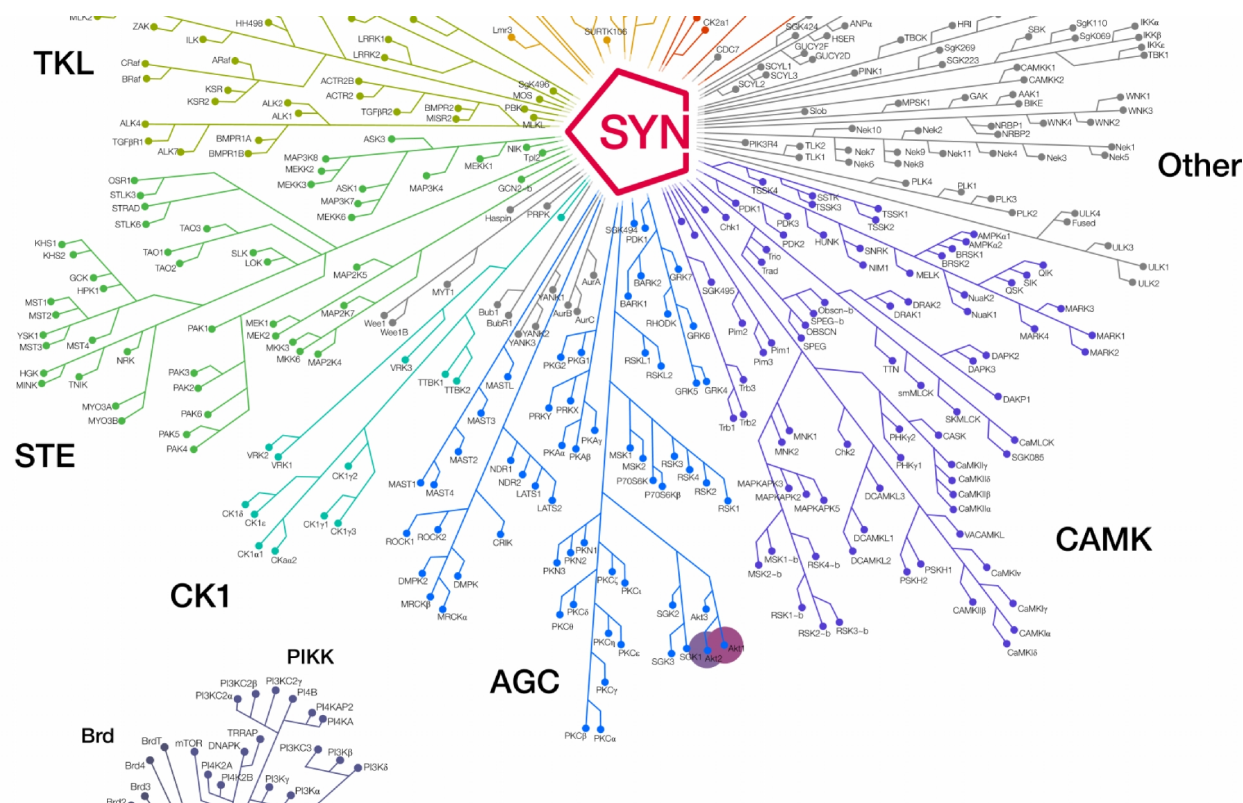
Description:

AZD is an inhibitor of AKT. AZD-26 inhibits the phosphorylation of Thr308 on AKT in BT474 cells with an IC₅₀ of 422 nM. It also inhibits the phosphorylation of Ser473 on AKT in MDAMB468 cells with an IC₅₀ of 322 nM. In numerous published cell assays using rodent and human model systems AZD-26 inhibited AKT mediated phosphorylation at ranges from 0.01 μM to 10 μM after 24 hour exposure. Likewise AZD-25 used at 100-200mg/kg also inhibited AKT phosphorylation and subsequent activation.

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 112mg/mL, Ethanol 4mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3435	3.4350	6.8700	17.1750

References

1. Kettle JG, Brown S, Crafter C, Davies BR, Dudley P, Fairley G, Faulder P, Fillery S, Greenwood H, Hawkins J, James M, Johnson K, Lane CD, Pass M, Pink JH, Plant H, Cosulich SC. Diverse heterocyclic scaffolds as allosteric inhibitors of AKT. J Med Chem. 2012 Feb 9;55(3):1261-73. doi: 10.1021/jm201394e. Epub 2012 Jan 27.

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)