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DATASHEET

Torin 2

Product overview

Name	Torin 2
Cat No	HB2254
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective mTOR inhibitor

Biological Data

Biological description	Potent, selective and ATP-competitive mTOR inhibitor ($IC_{50} = 2.1$ nM and EC_{50} value = 250 pM for inhibition of cellular mTOR activity). Shows 800-fold selectivity over PI3K and >100-fold selectivity over ~400 other protein kinases. Shows potent antiproliferative activity. Causes apoptosis and autophagy and induces G_0/G_1 cell cycle arrest.
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Solubility & Handling

Storage instructions	+4 °C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	9-(6-Amino-3-pyridinyl)-1-[3-(trifluoromethyl)phenyl]-benzo[h]-1,6-naphthyridin-2(1H)-one
Molecular Weight	432.4
Chemical structure	
Molecular Formula	$C_{24}H_{15}F_3N_4O$
CAS Number	1223001-51-1
PubChem identifier	51358113
SMILES	<chem>O=C(C=C3)N(C5=CC=CC(C(F)(F)F)=C5)C2=C3C=NC1=CC=C(C4=CC=C(N)N=C4)C=C12</chem>
InChiKey	GUXXEUYCAYESJ-UHFFFAOYSA-N

References

Activity of the novel mTOR inhibitor Torin-2 in B-precursor acute lymphoblastic leukemia and its therapeutic potential to prevent Akt reactivation.

Simioni et al (2014) Oncotarget 5(20)

PubMedID [25296981](#)

Characterization of Torin2, an ATP-competitive inhibitor of mTOR, ATM, and ATR.

Liu et al (2013) Cancer Res 73(8)

PubMedID [23436801](#)

Discovery of 9-(6-aminopyridin-3-yl)-1-(3-(trifluoromethyl)phenyl)benzo[h][1,6]naphthyridin-2(1H)-one (Torin2) as a potent,

selective, and orally available mammalian target of rapamycin (mTOR) inhibitor for treatment of cancer.

Liu et al (2011) J Med Chem 54(5)

PubMedID

[21322566](#)
