

Torin-1

Cat. # F6100, F6101

Also Known as: 1-[4-[4-(1-Oxopropyl)-1-piperazinyl]-3-(trifluoromethyl)phenyl]-9-(3-quinolinyl)-benzo[h]-

1,6-naphthyridin-2(1H)-one

Formula: $C_{35}H_{28}F_3N_5O_2$ MW: 607.62 Da 1222998-36-8

Source: Synthetic

Form: Lyophilized powder

Soluble in DMSO up to 4 mg/mL when warming to 50 °C. Sonicate if needed.

Concentration: N/A

Quality Assurance: >99% by HPLC and NMR

Description: Torin 1-is a cell permeable highly potent, selective and ATP-competitive mTOR inhibitor of

the mammalian target of rapamycin (mTOR) kinase. Torin-1 exhibits over 100-fold selectivity for mTOR over PI3K α and other PI3K-like kinases, as well as 450 other protein kinases. Torin-1 has been found to impair cell growth and proliferation through a mechanism involving mTORC1 inhibition other than mTORC2 inhibition, in which the

rapamycin-resistant functions of mTORC1 is suppressed.

Storage: Eligible for room temperature shipping. Store at -20°C upon receiving; protect from air and

light

How to Use Torin-1 was used at 2-5,000 nM in cell-balsed in vitro assays.

Literature: 1. Guertin DA, et al. (2009) Sci.Signal. 2(67):pe24

2. Thoreen CC, et al. (2009) J.Biol.Chem. 284(12):8023-32

3. Liu Q, et al. (2010) J.Med.Chem. 53(19):7146-55

