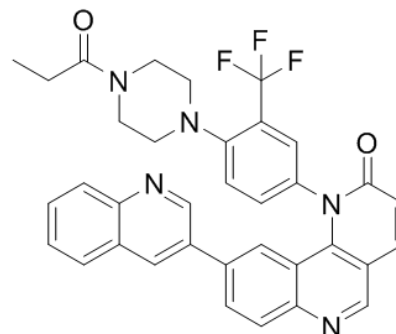


Product Name : Torin1
Cat. No. : PC-43314
CAS No. : 1222998-36-8
Molecular Formula : C₃₅H₂₈F₃N₅O₂
Molecular Weight : 607.6243
Target : mTOR
Solubility :



Biological Activity

Torin1 is a highly potent, selective inhibitor of **mTORC1** and **mTORC2** with IC₅₀ of 2 and 10 nM in cell-free assays, exhibits 1,000-fold selectivity PI3K (EC₅₀=1,800 nM).

Torin1 exhibits 100-fold binding selectivity relative to 450 other protein kinases.

Torin1 causes cell cycle arrest through a rapamycin-resistant mechanism that is also independent of mTORC2, disrupts mTORC1-dependent phenotypes more completely than rapamycin.

Torin1 prevents the anti-inflammatory potency of GC both in human monocytes and myeloid dendritic cells.

References

Thoreen CC, et al. *J Biol Chem*. 2009 Mar 20;284(12):8023-32.

Liu Q, et al. *J Med Chem*. 2010 Oct 14;53(19):7146-55.

Weichhart T, et al. *Blood*. 2011 Apr 21;117(16):4273-83.

Thoreen CC, et al. *Autophagy*. 2009 Jul;5(5):725-6.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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