



LKT Laboratories, Inc.

Torin 1

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Product Information

Product ID T5870

CAS No. 1222998-36-8

Chemical Name

Synonym

Formula $C_{35}H_{28}F_3N_5O_2$

Formula Wt. 607.64

Melting Point

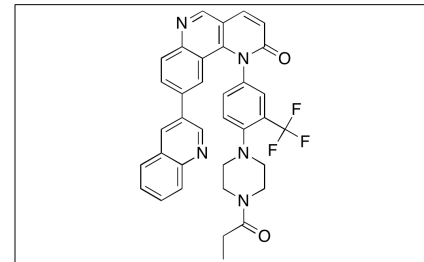
Purity $\geq 98\%$

Solubility 1mM with gentle warming in
DMSO

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Torin 1 is a tricyclic benzonaphthyridinone that inhibits mTORC1/2 and exhibits anti-inflammatory, anti-angiogenic, anti-metastatic, and anticancer chemotherapeutic activities. In macrophages, torin 1 decreases cytokine production and inflammatory response signaling. In colorectal cancer cells, this compound induces apoptosis and inhibits growth, motility, invasiveness, and survival; it also inhibits tumor growth and vessel formation in vivo.



Bulk quantities available upon request

Product ID	Size
T5870	5 mg
T5870	10 mg
T5870	25 mg

References Shappley RK, Spentzas T. Differential Role of Rapamycin and Torin/KU63794 in Inflammatory Response of 264.7 RAW Macrophages Stimulated by CA-MRSA. *Int J Inflam.* 2014;2014:560790. PMID: 24800098.

Francipane MG, Lagasse E. Selective targeting of human colon cancer stem-like cells by the mTOR inhibitor Torin -1. *Oncotarget.* 2013 Nov;4(11):1948-62. PMID: 24185040.

Liu Q, Chang JW, Wang J, et al. Discovery of 1-(4-(4-propionylpiperazin-1-yl)-3-(trifluoromethyl)phenyl)-9-(quinolin-3-yl)benzo[h][1,6]naphthyridin-2(1H)-one as a highly potent, selective mammalian target of rapamycin (mTOR) inhibitor for the treatment of cancer. *J Med Chem.* 2010 Oct 14;53(19):7146-55. PMID: 20860370.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.