LKT Laboratories, Inc.

Tenovin-6

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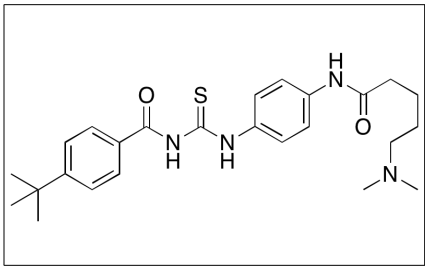
Product Information

Product ID T1853
CAS No. 1011557-82-6
Chemical Name
Synonym
Formula $C_{25}H_{34}N_4O_2S$
Formula Wt. 454.63
Melting Point
Purity ≥98%
Solubility DMSO 98 mg/mL (215.55 mM)
Water 98 mg/mL warmed (215.55 mM)
Ethanol Insoluble
Store Temp -20°C
Ship Temp Ambient



Bulk quanitites available upon request

Product ID	Size
T1853	1 mg
T1853	5 mg
T1853	25 mg

Description Tenovin-6 is an inhibitor of sirtuins 1 and 2 (SIRT1/2) that also indirectly activates p53; sirtuins are considered class III histone deacetylases (HDACs). Tenovin-6 exhibits anticancer chemotherapeutic activity in several models. In chronic lymphocytic leukemia (CLL) cells, tenovin-6 increases levels of LC3-II and p62, dysregulating autophagy. In colon cancer cells, this compound increases levels of death receptor 5 (DR5), inducing apoptosis. Tenovin-6 also decreases tumor growth in animal models.

References

Ueno T, Endo S, Saito R, et al. The sirtuin inhibitor tenovin-6 upregulates death receptor 5 and enhances cytotoxic effects of 5-Fluorouracil and oxaliplatin in colon cancer cells. Oncol Res. 2014;21(3):155-64. PMID: 24512730.

MacCallum SF, Groves MJ, James J, et al. Dysregulation of autophagy in chronic lymphocytic leukemia with the small-molecule Sirtuin inhibitor Tenovin-6. Sci Rep. 2013;3:1275. PMID: 23429453.

Lain S, Hollick JJ, Campbell J, et al. Discovery, in vivo activity, and mechanism of action of a small-molecule p53 activator. Cancer Cell. 2008 May;13(5):454-63. PMID: 18455128.

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