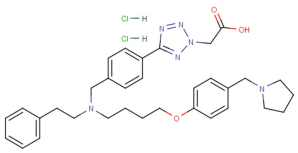
Data Sheet (Cat.No.T17068)

TargetMol
A DRUG SCREENING EXPERT

TH1834 dihydrochloride

Chemical Properties



CAS No.:	2108830-09-5
Formula:	C33H42Cl2N6O3
Molecular Weight:	641.63
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	TH1834 dihydrochloride is a specific Tip60 histone acetyltransferase inhibitor. TH1834 dihydrochloride causes apoptosis and enhances DNA damage in breast cancer.
Targets(IC_{50})	Others: None
In vitro	TH1834 obviously inhibits Tip60 activity in vitro and treating cells with TH1834 results in apoptosis and increased unrepaired DNA damage in breast cancer. TH1834 (0-500 μM; 1 hour; MCF7 cells) treatment significantly decreases the viability of MCF7 cells. TH1834 (0-500 μM; 1 hour; MCF7 cells) treatment highly significant increase in cytotoxicity. TH1834 (500 μM; 1 hour; MCF7 cells) treatment induces caspase 3 activation in MCF7 cells [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.559 mL	7.793 mL	15.585 mL
5 mM	0.312 mL	1.559 mL	3.117 mL
10 mM	0.156 mL	0.779 mL	1.559 mL
50 mM	0.031 mL	0.156 mL	0.312 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Gao C, et al. Rational design and validation of a Tip60 histone acetyltransferase inhibitor. Sci Rep. 2014 Jun 20;4:5372.

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