

Tenovin-1

Chemical Properties

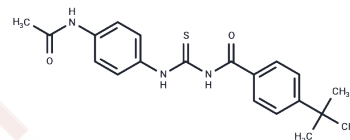
CAS No. : 380315-80-0

Formula: C₂₀H₂₃N₃O₂S

Molecular Weight: 369.48

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Tenovin-1 inhibits protein-deacetylating activities of SirT1 and SirT2 and protects against MDM2-mediated p53 degradation, which involves ubiquitination.
Targets(IC50)	Mdm2, Autophagy, Dehydrogenase, p53, Sirtuin
In vitro	Tenovin-1 (10 μM) protected p53 from mdm 2-mediated degradation, but had little effect on p53 protein synthesis. When applied to p53-expressing tumor cells, Tenovin-1 inhibited cell growth and induced apoptosis. Tenovin-1 is a p53 activator and increased the amount of p53 protein within 2 h of treatment. Tenovin-1 did not affect p53 mRNA levels.
In vivo	Tenovin-1 (10 μM) protected p53 from mdm 2-mediated degradation, but had little effect on p53 protein synthesis. When applied to p53-expressing tumor cells, Tenovin-1 inhibited cell growth and induced apoptosis. Tenovin-1 is a p53 activator and increased the amount of p53 protein within 2 h of treatment. Tenovin-1 did not affect p53 mRNA levels.
Cell Research	Cell viability is determined by trypan blue exclusion, Giemsa staining, or MTT assays. (Only for Reference)

Solubility Information

Solubility	DMSO: 9.2 mg/mL (24.9 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7065 mL	13.5325 mL	27.0651 mL
5 mM	0.5413 mL	2.7065 mL	5.413 mL
10 mM	0.2707 mL	1.3533 mL	2.7065 mL
50 mM	0.0541 mL	0.2707 mL	0.5413 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Lain S, et al. Cancer Cell, 2008, 13(5), 454-463.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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