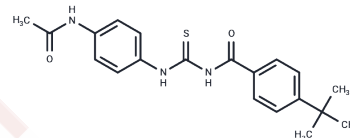


## Tenovin-1

## Chemical Properties

CAS No. : 380315-80-0  
 Formula: C<sub>20</sub>H<sub>23</sub>N<sub>3</sub>O<sub>2</sub>S  
 Molecular Weight: 369.48  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## 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, MDM-2/p53
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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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

#### Reference

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

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