Data Sheet (Cat.No.C0048)

TargetMol

Deacetylase Inhibitor Cocktail (100× in 70% DMSO)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: -20°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Protein acetylation is a common posttranslational modification that plays a crucial role in regulating biological processes such as gene expression, cell proliferation, and metabolic regulation. The acetylation level of proteins within cells is regulated by both acetyltransferases and deacetylases. Deacetylase inhibitors can effectively prevent the loss of acetylation modifications to increase the acetylation level. TargetMol deacetylase inhibitor cocktail consists of four components that effectively inhibit the activity of various deacetylases and maintain protein acetylation status, including reversible inhibitors for Class I/II deacetylases such as Trichostatin A and Sodium Butyrate, a reversible inhibitor for Class III deacetylases (sirtuins, SIRTs) like Nicotinamide, and a selective reversible inhibitor for SIRT1, known as EX-527. To enhance the detection of protein acetylation level, deacetylase inhibitor cocktail can be added to cell culture medium for a certain incubation period before cell collection and protein extraction.

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