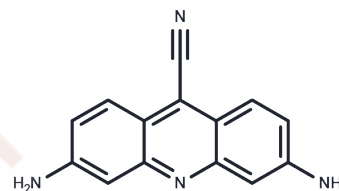


CTX1

Chemical Properties

CAS No. :	501935-96-2
Formula:	C ₁₄ H ₁₀ N ₄
Molecular Weight:	234.26
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	CTX1 is a small molecule activator of p53.
Targets(IC50)	E1/E2/E3 Enzyme,p53,MDM-2/p53
In vitro	CTX1 can induce p53 protein levels in the p53 mutant cell line, HT29 and it also induces significant p53-dependent cell death preferentially in HdmX-expressing cells as compared to cells in which p53 is inactivated by Hdm2 overexpression or p53 is knocked down using p53 targeting shRNA. It is also found that CTX1 shows potent activity (LD50 ~1 μM) as a single agent on primary AML patient samples in a similar fashion to AML cell lines. After CTX1(16 h) treatment in HCT116 p53-wild-type cells, there is a decrease in S phase from 23% to 3% while HCT116 p53-null cells exhibit a reduction in S phase from 34% to 28%. The combination of low doses of CTX1 and nutlin-3 leads to a significant enhancement of apoptosis in p53-wildtype, but not p53-null cells.
In vivo	Mice treated with CTX1 alone or in combination with nutlin-3 has a significantly increased survival time (p<0.0001). In this model system, CTX1 even as a single agent significantly enhances the survival of mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2688 mL	21.3438 mL	42.6876 mL
5 mM	0.8538 mL	4.2688 mL	8.5375 mL
10 mM	0.4269 mL	2.1344 mL	4.2688 mL
50 mM	0.0854 mL	0.4269 mL	0.8538 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.

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

Karan G, et al. Identification of a Small Molecule That Overcomes HdmX-Mediated Suppression of p53. Mol Cancer Ther. 2016 Apr;15(4):574-582.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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