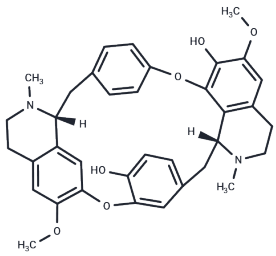
Data Sheet (Cat.No.TN1156)

TargetMol

(-)-Curine

Chemical Properties



CAS No. : 436-05-5

Formula: C36H38N2O6

Molecular Weight: 594.70

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	(-)-Curine can inhibit viability of hepatocellular carcinoma cells in regardless of p53 status.
Targets(IC50)	p53,Prostaglandin Receptor
In vitro	As in many other cancers, p53 mutations are commonly observed in HCCs (Hussain et al., 2007; Levine et al., 1994) [1,2]. Tumor tissues with mutant p53 seems to be more aggressive and resist to chemotherapy than that harboring wide-type p53 (Harris and Hollstein, 1994; Parrales and Iwakuma, 2015) [3,4]. (-)-Curine, a novel bisbenzylisoquinoline alkaloid, is one of the main components isolated from the roots of Cyclea wattii. Here, it was found to exert cytotoxity on hepatocellular carcinoma (HCC) cells regardless of p53 status. We found that (-)-Curine induced G1 arrest and cell death in HepG2 cells with wild-type p53 as well as Huh-7 cells with mutant p53. In HepG2 cells, knocking down of p53 did not change its cellular responses to (-)-Curine, and same degree of G1 arrest and cell death were occurred after p53 knockdown.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6815 mL	8.4076 mL	16.8152 mL
5 mM	0.3363 mL	1.6815 mL	3.363 mL
10 mM	0.1682 mL	0.8408 mL	1.6815 mL
50 mM	0.0336 mL	0.1682 mL	0.3363 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

(-)-Curine induces cell cycle arrest and cell death in hepatocellular carcinoma cells in a p53-independent way. Biomed Pharmacother. 2017 May;89:894-901.

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