

MDMX/MDM2-IN-2

Chemical Properties

CAS No. :

Formula: C₂₈H₂₅Cl₃FN₃O₃

Molecular Weight: 576.87

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	MDMX/MDM2-IN-2 is a potent dual inhibitor of p53-MDM2/MDMX, with dissociation constants (K _i s) of 0.23 μM for MDM2 and 2.45 μM for MDMX. It disrupts the interaction between p53 and MDM2 proteins, reinstating p53 functionality to induce cell cycle arrest and apoptosis. Additionally, this compound impedes cell migration and invasion, exhibiting notable antitumor activity [1].
Targets(IC50)	Apoptosis,Others,MDM-2/p53
In vitro	MDMX/MDM2-IN-2 exhibits moderate antiproliferative activity in HCT116 and SH-SY5Y cells with IC ₅₀ values of 0.68 μM and 0.54 μM, respectively, and demonstrates low cytotoxicity towards normal human bronchial epithelial BEAS-2B cells and LO2 hepatocytes with IC ₅₀ values of 17.96 μM and 15.93 μM, respectively [1]. The compound, at concentrations of 0.6-2.4 μM for 48 hours, induces apoptosis and causes cell cycle arrest at the G1 phase in both HCT116 and SH-SY5Y cells [1]. Additionally, MDMX/MDM2-IN-2 increases levels of p53 and its downstream targets MDM2, MDMX, p21, and cleaved-caspase3 [1]. At 0.4-0.8 μM, it significantly inhibits colony formation, migration, and invasion in these cell lines [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7335 mL	8.6675 mL	17.3349 mL
5 mM	0.3467 mL	1.7335 mL	3.467 mL
10 mM	0.1733 mL	0.8667 mL	1.7335 mL
50 mM	0.0347 mL	0.1733 mL	0.3467 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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