

Antitumor agent-96

Chemical Properties

CAS No. :

Formula: C₂₇H₃₂N₂O₂

Molecular Weight: 416.56

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	"Antitumor agent-96 (Compound D34) is a potent MRE11 inhibitor that down-regulates the homologous recombination (HR) pathway by binding to and suppressing the endonuclease functions of MRE11, thereby inducing apoptosis in CM cells [1]."
Targets(IC50)	Apoptosis
In vitro	Antitumor agent-96 (Compound D34; 72 h) exhibits selective cytotoxicity in CM cell lines CM-AS16 (IC ₅₀ = 2.9 ± 0.1 μM), CRMM2 (IC ₅₀ = 0.7 ± 0.0 μM), CM2005.1 (IC ₅₀ = 1.0 ± 0.1 μM), and CRMM1 (IC ₅₀ = 1.3 ± 0.3 μM) compared to ocular melanoma, cutaneous melanoma, and normal cells [1]. Additionally, Antitumor agent-96 (0.1-10 μM; 48 h) induces apoptosis in CRMM1 cells, inhibits CRMM1 cell migration, and increases DNA damage in CM cells while downregulating the HR pathway MRN complex [1].
In vivo	Antitumor agent-96 dihydrochloride (Compound D34 dihydrochloride; 10 and 20 mg/kg; i.p.; administered five times per week for 28 days) exhibited antitumor activity in mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4006 mL	12.0031 mL	24.0061 mL
5 mM	0.4801 mL	2.4006 mL	4.8012 mL
10 mM	0.2401 mL	1.2003 mL	2.4006 mL
50 mM	0.048 mL	0.2401 mL	0.4801 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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