

HDAC6/HSP90-IN-2

Chemical Properties

CAS No. :

Formula: C19H22N2O5

Molecular Weight: 358.39

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	HDAC6/HSP90-IN-2 (compound 6e) is a dual inhibitor of HDAC6 and Hsp90 with IC50 values of 105.7 nM and 61 nM, respectively, primarily used in cancer research [1].
Targets(IC50)	Apoptosis,Others,HSP,HDAC
In vitro	HDAC6/HSP90-IN-2 (compound 6e), in concentrations from 0.05 to 2 μ M over 24 hours, dose-dependently affects HSP90, HDAC6, and Hsp90-regulated signaling pathways, promoting HSP90 acetylation at 2 μ M. It inhibits H1975 non-small cell lung cancer cell growth (0-100 μ M, 24-72 hours) and induces apoptosis (0-2 μ M, 24 hours). Western blot analyses show dose-dependent inhibition of Hsp90 and HDACs, increased Hsp70 and Hsp90 expression likely via HSF1 activation (0.05, 0.1, 0.5, 1, 2 μ M, 24 hours), and enhanced Hsp90 K294 acetylation at 2 μ M. Apoptosis assays reveal dose-dependent early and late apoptosis in H1975 cells (0, 0.5, 1, 2 μ M, 24 hours). Cell viability assays indicate a GI50 value of 1.7 μ M.
In vivo	HDAC6/HSP90-IN-2 (compound 6e), administered at a dosage of 25-50 mg/kg via intraperitoneal injection on weekdays for six weeks, demonstrated significant antitumor activity in NOD-scid IL2Rgammanull (NSG) mice xenografted with H1975 cells. The treatment not only delayed tumor growth after two weeks but also effectively reduced tumor growth rates in the mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7903 mL	13.9513 mL	27.9026 mL
5 mM	0.5581 mL	2.7903 mL	5.5805 mL
10 mM	0.279 mL	1.3951 mL	2.7903 mL
50 mM	0.0558 mL	0.279 mL	0.5581 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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