

DTX-P7

Chemical Properties

CAS No. :

Formula: C84H118N8O25

Molecular Weight: 1639.87

Keep away from moisture

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	DTX-P7 is a peptide drug conjugate (PDC) composed of Docetaxel (DTX) and a heptapeptide (P7), which induces the unfolded protein response and subsequent apoptosis by degrading Hsp90.
Targets(IC50)	Apoptosis,HSP,PERK
In vitro	DTX-P7 suppresses the expression of membrane-bound Hsp90 in a dose- and time-dependent manner, while no changes are observed at the mRNA level. It also enhances the phosphorylation of PERK and eIF2 α ; however, XBP-1 mRNA splicing is not observed upon exposure in A549 cells.
In vivo	DTX-P7 administered to mice with A549 xenograft tumors (15/30 mg/kg, once weekly for 4 weeks) inhibits tumor growth in dormant/slow-proliferating A549/CD133+ cells by degrading DYRK1A and subsequently allowing cell cycle reentry.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6098 mL	3.049 mL	6.098 mL
5 mM	0.122 mL	0.6098 mL	1.2196 mL
10 mM	0.061 mL	0.3049 mL	0.6098 mL
50 mM	0.0122 mL	0.061 mL	0.122 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481