

Melatonin-Tamoxifen Conjugate

Chemical Properties

CAS No. :

Formula: C47H58N4O4

Molecular Weight: 742.99

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	Melatonin-Tamoxifen Conjugate (compound 16c) is an anticancer drug conjugate made of Melatonin and Tamoxifen, serving as an effective antagonist of ER α (IC ₅₀ = 863 nM). In cells expressing the hMT1 receptor, it binds to MLT receptors (K _i = 3.1 nM) and exhibits the ability to promote β -arrestin activation (EC ₅₀ = 914 nM) and ERK activation (EC ₅₀ = 98 nM). The IC ₅₀ values for Melatonin-Tamoxifen Conjugate in MCF-7, MDA-MB-231, and HT-1080 cell lines are 6.8 μ M, 6.4 μ M, and 1.7 μ M, respectively.
Targets(IC ₅₀)	Melatonin Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3459 mL	6.7296 mL	13.4591 mL
5 mM	0.2692 mL	1.3459 mL	2.6918 mL
10 mM	0.1346 mL	0.673 mL	1.3459 mL
50 mM	0.0269 mL	0.1346 mL	0.2692 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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