

Deacetyltanghinin

Chemical Properties

CAS No. :	4589-95-1
Formula:	C30H44O9
Molecular Weight:	548.67
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Deacetyltanghinin is a selective inhibitor of Na ⁺ /K ⁺ ATPase, functioning through non-covalent binding, but it exhibits significant cardiotoxicity. Its mechanism involves inhibiting Na ⁺ /K ⁺ ATPase activity, inducing caspase-mediated apoptosis in cancer cells, and affecting the TXA ₂ -PGI ₂ balance in rabbit hearts. This compound demonstrates notable anticancer activity, primarily used in targeted research on malignancies such as breast and lung cancer, with attention to its cardiotoxicity regulation.
Targets(IC50)	Apoptosis,Caspase,Prostaglandin Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8226 mL	9.1129 mL	18.2259 mL
5 mM	0.3645 mL	1.8226 mL	3.6452 mL
10 mM	0.1823 mL	0.9113 mL	1.8226 mL
50 mM	0.0365 mL	0.1823 mL	0.3645 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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