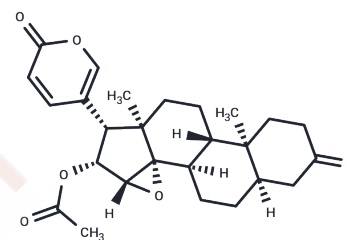


3-Oxo-cinobufagin

Chemical Properties

CAS No. :	6869-66-5
Formula:	C ₂₆ H ₃₂ O ₆
Molecular Weight:	440.53
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	3-Oxo-cinobufagin (compound 8), a potential anticancer agent, is extracted from <i>M. spinosus</i> broth using high performance liquid chromatography. This compound is unique among its isolated counterparts because its C-5 hydroxyl group is further oxidized or isomerized, which significantly reduces its cytotoxic activity against most cell lines, except for HEL. However, it demonstrates increased activity in BEL cell strains. The IC ₅₀ values of 3-Oxo-cinobufagin for cytotoxicity against cancer cells are: 71.3 μM (HepG2), 90.2 μM (SMMC-7221), 0.11 μM (BEL-7402), 72.5 μM (K562), 5.3 μM (HL-60), and 12 nM (HEL).
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.270 mL	11.350 mL	22.6999 mL
5 mM	0.454 mL	2.270 mL	4.540 mL
10 mM	0.227 mL	1.135 mL	2.270 mL
50 mM	0.0454 mL	0.227 mL	0.454 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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