

## Cinobufaginol

## Chemical Properties

CAS No. :	6691-83-4
Formula:	C <sub>26</sub> H <sub>34</sub> O <sub>7</sub>
Molecular Weight:	458.55
Storage:	Keep away from moisture 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	Cinobufaginol is a natural bufadienolide isolated from the secretions of the Chinese toad ( <i>Bufo bufo gargarizans</i> ). Cinobufaginol exhibits significant cytotoxicity against various tumor cell lines, with IC <sub>50</sub> values of 803 μM and 1.270 μM for the human nasopharyngeal carcinoma cell lines CNE-1 and CNE-2Z, respectively. In tests against various cancer cell lines, including A549 (lung cancer), HCT-116 (colon cancer), and SKOV3 (ovarian cancer), the IC <sub>50</sub> values for cinobufaginol were all below 2.17 μM.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 40 mg/mL (87.23 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1808 mL	10.9039 mL	21.8079 mL
5 mM	0.4362 mL	2.1808 mL	4.3616 mL
10 mM	0.2181 mL	1.0904 mL	2.1808 mL
50 mM	0.0436 mL	0.2181 mL	0.4362 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.

Reference

Liu JS, et al. Anti-tumor effects and 3D-quantitative structure-activity relationship analysis of bufadienolides from toad venom. *Fitoterapia*. 2019;134:362-371.

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