

Gamabufotalin

Chemical Properties

CAS No. : 465-11-2

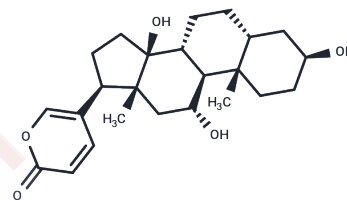
Formula: C₂₄H₃₄O₅

Molecular Weight: 402.52

Keep away from direct sunlight

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	1. Gamabufotalin (Gamabufagin), a major bufadienolide of Chansu, has been used for treatment of COX-2-mediated diseases and cancer therapy due to its desirable metabolic stability and less adverse effect.
Targets(IC50)	COX, VEGFR

Solubility Information

Solubility	DMSO: 25 mg/mL (62.11 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.97 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4843 mL	12.4217 mL	24.8435 mL
5 mM	0.4969 mL	2.4843 mL	4.9687 mL
10 mM	0.2484 mL	1.2422 mL	2.4843 mL
50 mM	0.0497 mL	0.2484 mL	0.4969 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

Yu Z , Guo W , Ma X , et al. Gamabufotalin, a bufadienolide compound from toad venom, suppresses COX-2 expression through targeting IKK β /NF- κ B signaling pathway in lung cancer cells[J]. Molecular Cancer, 2014, 13(1): 203.

Fan J, Qin Y, Qiu W, et al. Gamabufotalin loaded micro-nanocomposites for multimodal therapy of metastatic TNBC by efficiently inducing ICD. Biomaterials. 2024: 122851.

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