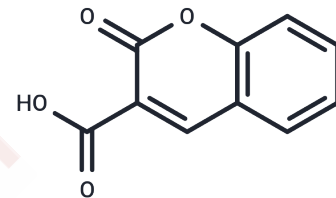


Coumarin-3-carboxylic acid

Chemical Properties

CAS No. :	531-81-7
Formula:	C ₁₀ H ₆ O ₄
Molecular Weight:	190.15
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	The combination of Valproic acid with Coumarin-3-carboxylic acid (3-Carboxycoumarin) suppresses the proliferation and migration of lung cancer cells via EGFR/VEGFR2/c-Met-Akt-NF-κB signaling pathways; this combination may have a wide therapeutic and/or adjuvant therapeutic application in the treatment of lung cancer.
Targets(IC50)	Others, VEGFR

Solubility Information

Solubility	DMSO: 50 mg/mL (262.95 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 (10.52 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	5.259 mL	26.295 mL	52.5901 mL
5 mM	1.0518 mL	5.259 mL	10.518 mL
10 mM	0.5259 mL	2.6295 mL	5.259 mL
50 mM	0.1052 mL	0.5259 mL	1.0518 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

Xin Liu, et al. Enhanced suppression of proliferation and migration in highly-metastatic lung cancer cells by combination of valproic acid and coumarin-3-carboxylic acid and its molecular mechanisms of action. Cytotechnology. 2013 Aug; 65(4): 597-608.

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