

Carnosol

Chemical Properties

CAS No. : 5957-80-2

Formula: C₂₀H₂₆O₄

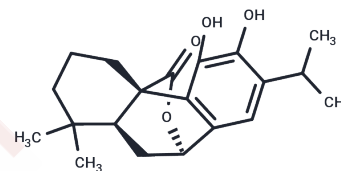
Molecular Weight: 330.42

Keep away from direct sunlight, Keep away from moisture

Storage:

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Carnosol is an Nrf2 activator, increasing Nrf2 levels and promoting heme oxygenase 1 (HMOX1) expression. It is a ribosomal S6 kinase (RSK2) inhibitor and can be used in gastric cancer-related research with an IC ₅₀ value of approximately 5.5 μM.
Targets(IC ₅₀)	Nrf2, Endogenous Metabolite, S6 Kinase

Solubility Information

Solubility	DMSO: 60 mg/mL (181.59 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 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 (6.05 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	3.0265 mL	15.1323 mL	30.2645 mL
5 mM	0.6053 mL	3.0265 mL	6.0529 mL
10 mM	0.3026 mL	1.5132 mL	3.0265 mL
50 mM	0.0605 mL	0.3026 mL	0.6053 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

López-Jiménez, Auxiliadora, García-Caballero, Melissa, Medina, Miguel ángel, et al. Anti-angiogenic properties of carnosol and carnosic acid, two major dietary compounds from rosemary[J]. *European Journal of Nutrition*, 2013, 52(1):85-95.

Wei Shi, Guang Xu, Xiaoyan Zhan, Yuan Gao, Zhilei Wang, Shubin Fu, Nan Qin, Xiaorong Hou, Yongqiang Ai, Chunyu Wang, Tingting He, Hongbin Liu, Yuanyuan Chen, Yan Liu, Jiabo Wang, Ming Niu, Yuming Guo, Xiaohe Xiao & Zhaofang Bai Carnosol inhibits inflammasome activation by directly targeting HSP90 to treat inflammasome-mediated diseases. *Cell Death & Disease*. 2020

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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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