

α -Truxillic acid

Chemical Properties

CAS No. : 490-20-0

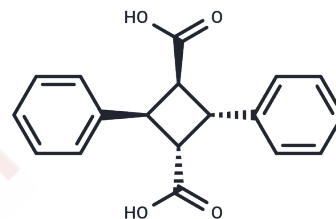
Formula: C₁₈H₁₆O₄

Molecular Weight: 296.32

Store at low temperature

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	α -Truxillic acid, a dimer of α -trans-cinnamic acid, inhibits inflammatory pain responses.
Targets(IC50)	Immunology/Inflammation related
In vivo	In ddy mice, α -Truxillic acid (40 mg/kg, intraperitoneal injection, single dose) exhibited significant anti-inflammatory activity, with its effect being superior to that of the β broussonetia papyrifera type.

Solubility Information

Solubility	DMSO: 90 mg/mL (303.73 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: 3.3 mg/mL (11.14 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	3.3747 mL	16.8737 mL	33.7473 mL
5 mM	0.6749 mL	3.3747 mL	6.7495 mL
10 mM	0.3375 mL	1.6874 mL	3.3747 mL
50 mM	0.0675 mL	0.3375 mL	0.6749 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

Chi YM, et al. Antinociceptive activities of alpha-truxillic acid and beta-truxinic acid derivatives. Biol Pharm Bull. 2006 Mar;29(3):580-4.

Sokolova A, et al. Synthesis and analgesic activity of new α -truxillic acid derivatives with monoterpene fragments[J]. Medicinal Chemistry Research, 2016, 25(8): 1608-1615.

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