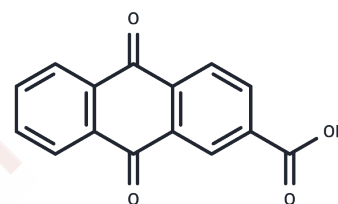


ANTHRAQUINONE-2-CARBOXYLIC ACID

Chemical Properties

CAS No. :	117-78-2
Formula:	C ₁₅ H ₈ O ₄
Molecular Weight:	252.22
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	Anthraquinone-2-carboxylic acid acts as a potent anti-inflammatory and antinociceptive component in vivo, thus contributing to the immune regulatory role of fruits and herbs.
Targets(IC50)	Syk,IRAK

Solubility Information

Solubility	DMSO: 39.62 mg/mL (157.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3.96 mg/mL (15.7 mM),Solution. <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	3.9648 mL	19.824 mL	39.6479 mL
5 mM	0.793 mL	3.9648 mL	7.9296 mL
10 mM	0.3965 mL	1.9824 mL	3.9648 mL
50 mM	0.0793 mL	0.3965 mL	0.793 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

- Park JG, et al. Anti-Inflammatory and Antinociceptive Activities of Anthraquinone-2-Carboxylic Acid. *Mediators Inflamm.* 2016;2016:1903849.
- Hua K, Liu X, Zhao Y, et al. Offloading Role of a Discrete Thioesterase in Type II Polyketide Biosynthesis. *Mbio.* 2020, 11(5)
- Ens T M, Kaduk J A, Dosen A, et al. Crystal structure of anthraquinone-2-carboxylic acid, C₁₅H₈O₄. *Powder Diffraction.* 2024: 1-7.
- Park JG, et al. Syk and IRAK1 Contribute to Immunopharmacological Activities of Anthraquinone-2-carboxylic Acid. *Molecules.* 2016 Jun 22;21(6).
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