2',5'-Dihydroxyacetophenone

Catalog No.C14215 Batch:C1421503

Product Datasheet

Technical Data

Formula	$C_8H_8O_3$					
Molecular Weight	152.15	**CAS No.**	490-78-8			
Solubility (25°C)*	In vitro	DMSO	30 mg/mL (197.17 mM)			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume / Mass	1 mg	5 mg	10 mg
1 mM	6.5725 mL	32.8623 mL	65.7246 mL
5 mM	1.3145 mL	6.5725 mL	13.1449 mL
10 mM	0.6572 mL	3.2862 mL	6.5725 mL
50 mM	0.1314 mL	0.6572 mL	1.3145 mL

Biological Activity

Description	2',5'-Dihydroxyacetophenone (DHAP, 2-Acetylhydroquinone, Quinacetophenone) is a mixture of dihydroxyacetophenone isomers is used in food flavouring. This compound significantly inhibits **NO** production via the suppression of **iNOS** expression. It significantly decreases levels of the pro-inflammatory cytokines **TNF-α** and **IL-6** by blocking the **ERK1/2** and **NF-κB** signaling pathways.
Targets	iNOS [1] ERK1/2 [1] NF-κB [1] TNF-α [1] IL-6 [1]

References

https://pubmed.ncbi.nlm.nih.gov/22510152/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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