Product Datasheet

Technical Data

Formula	$C_{17}H_{16}O_5$					
Molecular Weight	300.31	**CAS No.**	24211-30-1			
Solubility (25°C)*	In vitro	DMSO	60 mg/mL (199.79 mM)			
		Ethanol	60 mg/mL (199.79 mM)			
		Water	Insoluble			
	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.
		Injection	Clear solution	5%DMSO [1]→ 40%PEG300 [2]→ 5%Tween80 [3]→ 50%ddH2O Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	2.000mg/ml (6.66mM)	Taking the 1 mL working solution as an example, add 50 μL of 40 mg/ml clarified DMSO stock solution to 400 μL of PEG300, mix evenly to clarify it; add 50 μL of Tween80 to the above system, mix evenly to clarify; then continue to add 500 μL of ddH2O to adjust the volume to 1 mL. The mixed solution should be used immediately for optimal results.

* <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	3.3299 mL	16.6495 mL	33.2989 mL
5 mM	0.6660 mL	3.3299 mL	6.6598 mL
10 mM	0.3330 mL	1.6649 mL	3.3299 mL
50 mM	0.0666 mL	0.3330 mL	0.6660 mL

Biological Activity

Description	Farrerol, an important bioactive constituent of rhododendron, exhibits broad activities such as anti-oxidative and anti-inflammatory effects.
In vitro	Farrerol observably reduces the production of inflammatory mediators including IL-1β, IL-6, TNF-α, COX-2, and iNOS in LPS-induced RAW264.7 cells via suppressing AKT, ERK1/2, JNK1/2, and NF-κB p65 phosphorylation.[1]
In vivo	In 2,4,6-trinitrobenzene sulfonic acid (TNBS)-induced colitis model, Farrerol has a protective effect on TNBS-induced colitis. This compound administration significantly improves the weight change, clinical scores, colon length, and intestinal epithelium barrier damage and markedly decreases the production of the inflammatory cytokines in TNBS-induced mice. [1]

Protocol (from reference)

Cell Assay:[1]

- **Cell lines**
  RAW264.7 cells
- **Concentrations**
  25 μM-200 μM
- **Incubation Time**
  1 h
- **Method**
  RAW264.7 cells are pretreated with Farrerol for 1 h and then stimulated with LPS (1 μg/mL). RAW264.7 cells or the culture medium are collected and used to measure the reflections of pro-inflammatory mediators and the phosphorylation of signaling pathway by quantitative real-time PCR- and ELISA-analysis, respectively.

References

https://pubmed.ncbi.nlm.nih.gov/30011811/

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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