Praeruptorin A

Catalog No.C14161 Batch:C1416103

Product Datasheet

Technical Data

Formula	$C_{21}H_{22}O_7$					
Molecular Weight	386.40	**CAS No.**	73069-25-7			
Solubility (25°C)*	In vitro	DMSO	77 mg/mL (199.27 mM)			
		Ethanol	22 mg/mL (56.93 mM)			
		Water	<1 mg/mL			
	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	2.5880 mL	12.9400 mL	25.8799 mL
5 mM	0.5176 mL	2.5880 mL	5.1760 mL
10 mM	0.2588 mL	1.2940 mL	2.5880 mL
50 mM	0.0518 mL	0.2588 mL	0.5176 mL

Biological Activity

Description	Praeruptorin A, a naturally existing pyranocumarin, is isolated from the dried root of Peucedanum praeruptorum Dunn. This compound inhibits **p38/Akt-c-Fos-NFATc1** signaling and **PLCγ-independent Ca2+** oscillation. It can significantly upregulates **multidrug resistance-associated protein 2** expression via the constitutive androstane receptor-mediated pathway in vitro, and this should be taken as an herb-drug interaction.
Targets	Akt [1] / p38 MAPK [1] / Ca2+ [1]

References

https://pubmed.ncbi.nlm.nih.gov/24586466/

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.

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