

Balanophonin B

Chemical Properties

CAS No. :	92216-41-6
Formula:	C ₂₀ H ₂₀ O ₇
Molecular Weight:	372.37
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Balanophonin B is a selective inhibitor of the lipopolysaccharide (LPS)-induced nitric oxide (NO) production pathway, with an IC ₅₀ of 1.46 µg/mL, extracted from <i>Lithocarpus pachylepis</i> . It suppresses NO production in LPS-stimulated RAW264.7 macrophages, demonstrating anti-inflammatory activity and reducing inflammatory responses. Balanophonin B is applicable in the development of anti-inflammatory drugs and the study of the bioactivity of natural lignan compounds.
Targets(IC ₅₀)	NO Synthase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6855 mL	13.4275 mL	26.855 mL
5 mM	0.5371 mL	2.6855 mL	5.371 mL
10 mM	0.2686 mL	1.3428 mL	2.6855 mL
50 mM	0.0537 mL	0.2686 mL	0.5371 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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