

Bakkenolide B

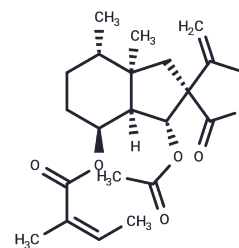
Chemical Properties

CAS No. : 18455-98-6

Formula: C₂₂H₃₀O₆

Molecular Weight: 390.47

Storage: Store at low temperature, Keep away from direct sunlight, Keep away from moisture
 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	Bakkenolide B is a natural product discovered in <i>Petasites japonicas</i> that suppresses allergic and inflammatory responses. It inhibits the gene induction of inducible nitric oxide synthase and cyclooxygenase-2 in mouse peritoneal macrophages and can be used for asthma research.
Targets(IC50)	NOS, COX
In vitro	Bakkenolide B (0-100 µg/ml; pretreated for 30 min) concentration-dependently inhibited antigen-induced β-hexosaminidase release from RBL2H3 mast cells [1]. Bakkenolide B (0-10 µg/ml; after 1 h LPS stimulation) potently and concentration-dependently suppressed the induction of inducible nitric oxide synthase and cyclooxygenase-2 gene expression in mouse peritoneal macrophages [1].
In vivo	Bakkenolide B (intraperitoneal injection; 1 mg/ml; administered 1 hour prior to ovalbumin nebulization; days 28, 29, and 30) strongly suppressed the accumulation of eosinophils, macrophages, and lymphocytes in bronchoalveolar lavage fluid (BALF) in ovalbumin-induced asthma mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.561 mL	12.8051 mL	25.6102 mL
5 mM	0.5122 mL	2.561 mL	5.122 mL
10 mM	0.2561 mL	1.2805 mL	2.561 mL
50 mM	0.0512 mL	0.2561 mL	0.5122 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

Lee KP, et al. Anti-allergic and anti-inflammatory effects of bakkenolide B isolated from *Petasites japonicus* leaves. *J Ethnopharmacol.* 2013 Jul 30;148(3):890-4.

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