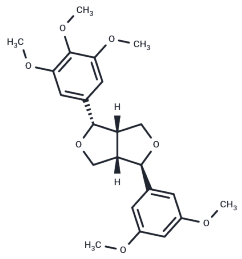
Data Sheet (Cat.No.TN1009)

TargetMol

Epimagnolin B

Chemical Properties



CAS No. : 1134188-26-3

Formula: C23H28O7

Molecular Weight: 416.46

Storage: 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	Epimagnolin B has anti-inflammatory activity, it can inhibit the production of NO and PGE(2) and the expression of respective enzyme iNOS and COX-2 through the suppression of I-kappaB-alpha degradation and nuclear translocation of p65 subunit of NF-kappaB. It also exhibits antiallergic effects without affecting the viability of bone marrow-derived mast cells.
Targets(IC50)	NF-κB,NO Synthase,Prostaglandin Receptor
In vitro	The overproduction of nitric oxide (NO) and prostaglandin E(2) (PGE(2)) causes neurodegenerative diseases, such as Alzheimer's disease and Parkinson's disease. Four lignans, (+)-eudesmin (1), (+)-magnolin (2), (+)-yangambin (3) and a new structure named as Epimagnolin B (4) were isolated from Magnolia fargesii (Magnoliaceae) as the inhibitors of NO production in LPS-activated microglia[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4012 mL	12.006 mL	24.0119 mL
5 mM	0.4802 mL	2.4012 mL	4.8024 mL
10 mM	0.2401 mL	1.2006 mL	2.4012 mL
50 mM	0.048 mL	0.2401 mL	0.4802 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

In vitro anti-inflammatory activity of lignans isolated from Magnolia fargesii.Bioorg Med Chem Lett. 2009 Feb 1;19 (3):937-40.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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