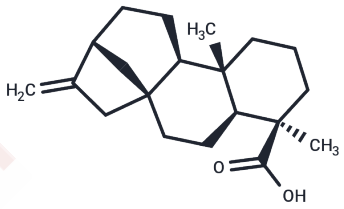
Data Sheet (Cat.No.T3929)

TargetMol

Kaurenoic acid

Chemical Properties



CAS No. : 6730-83-2

Formula: C20H30O2

Molecular Weight: 302.45

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	Kaurenoic acid (kaurenoate) has anti-inflammatory potential in acetic acid-induced colitis, decreases in MDA level. Kaurenoic acid exerts a uterine relaxant effect acting principally through calcium blockade and in part, by the opening of ATP-sensitive potassium channels. Kaurenoic acid exhibits an analgesic effect in a consistent manner and that its mechanisms involve the inhibition of cytokine production and activation of the NO-cyclic GMP-protein kinase G-ATP-sensitive potassium channel signaling pathway. Kaurenoic acid derivatives have an antimicrobial activity of substituted on carbon-15 at concentrations greater than or equal to 250 μg/ml. Kaurenoic acid has inhibitory effects on the LPS-induced inflammatory response in RAW264.7
Targets(IC50)	Others,Antibacterial,Potassium Channel

Solubility Information

Solubility	Chloroform: Soluble, DMSO: 125 mg/mL (413.29 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (33.06 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (33.06 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3063 mL	16.5317 mL	33.0633 mL
5 mM	0.6613 mL	3.3063 mL	6.6127 mL
10 mM	0.3306 mL	1.6532 mL	3.3063 mL
50 mM	0.0661 mL	0.3306 mL	0.6613 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

Okoye T C, et al. Anticonvulsant effect of kaurenoic acid isolated from the root bark of Annona senegalensis.[J]. Pharmacology Biochemistry & Behavior, 2013, 109(8):38-43.
Choi R J, et al. Inhibitory effects of kaurenoic acid from Aralia continentalis on LPS-induced inflammatory response in RAW264.7 macrophages[J]. Phytomedicine, 2011, 18(8):677-682.
Fernandes V C, et al. The epimer of kaurenoic acid from Croton antisyphiliticus is cytotoxic toward B-16 and HeLa tumor cells through apoptosis induction[J]. Genetics & Molecular Research, 2013, 12(2):12005-12011.
Jeong S I, et al. Kaurenoic Acid from Aralia continentalis Inhibits Biofilm Formation of Streptococcus mutans.[J]. 2016, 2013:160592.

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