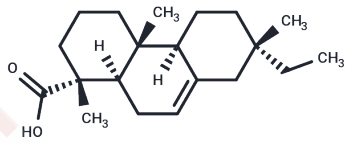
Data Sheet (Cat.No.T40650)

TargetMol

Dihydroisopimaric acid

Chemical Properties



CAS No. : 5673-36-9

Formula: C20H32O2

Molecular Weight: 304.47

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	Dihydroisopimaric acid activates BK channels alphabeta1, which are large conductance Ca 2+ activated K + channels. This compound directly measures the opening of BKalphabeta1 under a whole-cell voltage clamp.
Targets(IC50)	Others,Potassium Channel
In vitro	The impact of these compounds (10 microM) on the membrane potential of HEKBKalphabeta1 was assessed using DiBAC(4)(3), a voltage-sensitive dye. Dihydroisoparinic acid was observed to significantly induce membrane hyperpolarization. Moreover, within the concentration range of 1-10 microM, dihydroisopimaric acid effectively activates BKalphabeta1, as confirmed by the direct observation of BKalphabeta1 channel openings under whole-cell voltage clamp[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2844 mL	16.422 mL	32.844 mL
5 mM	0.6569 mL	3.2844 mL	6.5688 mL
10 mM	0.3284 mL	1.6422 mL	3.2844 mL
50 mM	0.0657 mL	0.3284 mL	0.6569 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

Imaizumi Y, et al. Molecular basis of pimarane compounds as novel activators of large-conductance Ca(2+)-activated K(+) channel alpha-subunit. Mol Pharmacol. 2002;62(4):836-846.

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