Data Sheet (Cat.No.TN1838)

TargetMol

Kulactone

Chemical Properties

CAS No. : 22611-36-5

Formula: C30H44O3

Molecular Weight: 452.679

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	Kulactone has cytotoxic effects, with IC50 values of 5.6-21.2ug/mL, it inhibited (ED(50) 2.5-6.2 microg/mL) the P388 cancer cell line.
Targets(IC50)	Antibacterial,Parasite,Antifection,Antifungal
In vitro	1 and 2, isolated for the first time from M. volkensii, exhibited significant ($p < 0.05$) activity against Escherichia coli with minimum inhibitory concentration of 12.5 μg/mL, close to that of neomycin (6.25 μg/mL). The compounds also exhibited high activity against Aspergillus niger (MIC 6.25 μg/mL compared to 2.5 μg/mL for clotrimazole). Dichloromethane and methanol seed, hexane stem bark and methanol root bark extracts exhibited activities towards Escherichia coli, Staphylococcus aureus, Aspergillus niger and Plasmodium falciparum, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2091 mL	11.0453 mL	22.0907 mL
5 mM	0.4418 mL	2.2091 mL	4.4181 mL
10 mM	0.2209 mL	1.1045 mL	2.2091 mL
50 mM	0.0442 mL	0.2209 mL	0.4418 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

Antimicrobial compounds from root, stem bark and seeds of Melia volkensii.Nat Prod Res. 2016 Sep;30(17):1984-7.

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