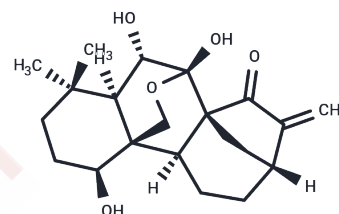


Effusanin A

Chemical Properties

CAS No. :	30220-43-0
Formula:	C ₂₀ H ₂₈ O ₅
Molecular Weight:	348.43
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	Effusanin A has antibacterial activity. It exhibits DNA-damaging activity in assay which employed DNA-repair deficient (RAD 52Y) and repairs proficient (RAD +) yeast strains. Effusanin A shows inhibitory effects on DU145 cells with IC ₅₀ value of 3.16 μM, and LoVo cells with IC ₅₀ value of 3.02 μM.
Targets(IC ₅₀)	Raf,Antibacterial,Antifection
In vitro	A new diterpenoid, rugosinin (1), isolated from <i>Isodon rugosus</i> , with absolute configuration was proved by single-crystal X-ray diffraction analysis, to be the member of a rare class of C-20/C-7 and C-20/C-14 diepoxy- ent-kauranoids. Effusanin A (2), effusanin B (3), effusanin E (4), lasiokaurin (5) and oridonin (6) were found as known constituents of the genus <i>Isodon</i> with C-20/C-7 epoxy function. These compounds have exhibited DNA-damaging activity in assay which employed DNA-repair deficient (RAD 52Y) and repair proficient (RAD +) yeast strains.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.870 mL	14.3501 mL	28.7002 mL
5 mM	0.574 mL	2.870 mL	5.740 mL
10 mM	0.287 mL	1.435 mL	2.870 mL
50 mM	0.0574 mL	0.287 mL	0.574 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

A new diepoxy-ent-kauranoid, rugosinin, from *Isodon rugosus*. *Planta Med.* 2003 Jan;69(1):94-6.

Cytotoxic ent-kaurane diterpenoids from *Isodon macrophyllus*. *J Asian Nat Prod Res.* 2009 Aug;11(8):693-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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