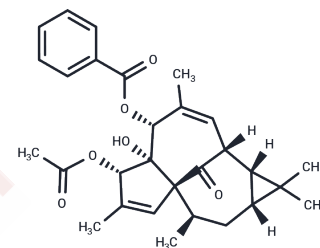


Kansuiphorin C

Chemical Properties

CAS No. :	133898-77-8
Formula:	C ₂₉ H ₃₄ O ₆
Molecular Weight:	478.58
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	Kansuiphorin C (KPC) is a natural product with a number of bioactivity. KPC could ameliorate malignant ascites by modulating gut microbiota mainly containing the increase of Lactobacillus and the decrease of Helicobacter and related carbohydrate and amino acid metabolism.
Targets(IC50)	Others,Antibacterial
In vivo	Kansuiphorin C(KPC) were modulatory compounds for gut microbiota.?The richness of Lactobacillus and the decreased abundance of Helicobacter involved in the carbohydrate metabolism and amino acid metabolism could be responsible for their prohibitory effects on malignant ascites.?KPC exhibited stronger modulation of gut microbiota through making the abundance of Helicobacter about 3.5 times lower than KA.?Besides, in-vivo microbial biotransformation of Kansuiphorin C(KPC) contained oxidation, hydrolysis, dehydration, and methylation to form metabolites of lower polarity.?Besides, at the dosage of 10 mg kg ⁻¹ , the toxicity of both compounds had weaker influences on the gut microbiota of normal rats[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (62.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0895 mL	10.4476 mL	20.8951 mL
5 mM	0.4179 mL	2.0895 mL	4.179 mL
10 mM	0.209 mL	1.0448 mL	2.0895 mL
50 mM	0.0418 mL	0.209 mL	0.4179 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

Zhang Y , Lou J W , Kang A , et al. Kansuiphorin C and Kansuinin A ameliorate malignant ascites by modulating gut microbiota and related metabolic functions[J]. Journal of Ethnopharmacology, 2019, 249:112423. Kansuiphorin C and Kansuinin A ameliorate malignant ascites by modulating gut microbiota and related metabolic functions. Concise stereocontrolled routes to fumagillol, fumagillin, and TNP-470.

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