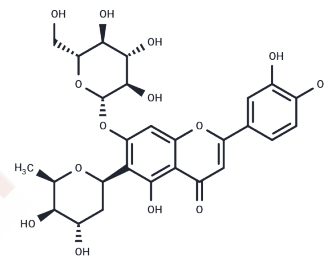


Farobin A

Chemical Properties

CAS No. :	1245447-08-8
Formula:	C ₂₇ H ₃₀ O ₁₄
Molecular Weight:	578.52
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	Farobin A, a natural compound, exhibits antibacterial, antioxidant, and anti-inflammatory properties. It is effective against <i>Streptococcus mutans</i> ATCC 25175 and <i>Streptococcus sobrinus</i> ATCC 33478. Additionally, Farobin A demonstrates anti-inflammatory activity by targeting cytokine IL-6 and TNF- α [1].
Targets(IC50)	Antibacterial
In vitro	Farobin A (compound 3) demonstrates moderate antibacterial activity at a concentration of 100 μ g/mL against <i>Streptococcus mutans</i> ATCC 25175 (inhibition rate of 28%) and <i>Streptococcus sobrinus</i> ATCC 33478 (inhibition rate of 26%) [1]. In RAW264.7 cells, Farobin A at 100 μ g/mL reduces IL-6 production from 2463.9 pg/mL (LPS stimulated) to 1051.8 pg/mL, and decreases TNF- α production from 14,644.8 pg/mL (LPS stimulated) to 9606 pg/mL when treated under the same concentration [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7285 mL	8.6427 mL	17.2855 mL
5 mM	0.3457 mL	1.7285 mL	3.4571 mL
10 mM	0.1729 mL	0.8643 mL	1.7285 mL
50 mM	0.0346 mL	0.1729 mL	0.3457 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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