

1,3,7-Trihydroxy-2-prenylxanthone

Chemical Properties

CAS No. : 20245-39-0

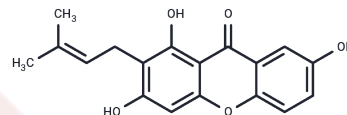
Formula: C₁₈H₁₆O₅

Molecular Weight: 312.32

Storage: Store at low temperature, Keep away from direct sunlight

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	1,3,7-Trihydroxy-2-prenylxanthone (Isombarraxanthone) shows weak antibacterial activity against the bacterium.
Targets(IC50)	Antibacterial, Antifection
In vitro	METHODS AND RESULTS: Ten xanthenes with one or two isoprenoid groups and a prenylated benzophenone isolated from roots of <i>Cudrania cochinchinensis</i> (Moraceae) were tested for their antimicrobial activities against <i>Bacillus subtilis</i> and methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). Among these compounds, gerontoxanthone H exhibited considerable antibacterial activity against <i>B. subtilis</i> (MIC = 1.56 microg/ml). Four xanthenes, gerontoxanthone I, toxyloxanthone C, cudraxanthone S, and 1,3,7-Trihydroxy-2-prenylxanthone, showed weak antibacterial activity against the bacterium (MICs = 3.13-6.25 microg/ml). CONCLUSIONS: These compounds also exhibited similar MIC values against methicillin-sensitive <i>S. aureus</i> , MRSA, and <i>Micrococcus luteus</i> [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2018 mL	16.0092 mL	32.0184 mL
5 mM	0.6404 mL	3.2018 mL	6.4037 mL
10 mM	0.3202 mL	1.6009 mL	3.2018 mL
50 mM	0.064 mL	0.3202 mL	0.6404 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 activity of hydrophobic xanthenes from *Cudrania cochinchinensis* against *Bacillus subtilis* and methicillin-resistant *Staphylococcus aureus*. *Chem Biodivers*. 2004 Sep;1(9):1385-90.

Antimicrobial activity of isoprenoid-substituted xanthenes from *Cudrania cochinchinensis* against vancomycin-resistant enterococci. *Phytomedicine*. 2005 Jun;12(6-7):510-3.

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