

Gancaonin G

Chemical F	Properties
CAS No.:	126716-34-5
Formula:	C21H20O5
Molecular Weight:	352.39
Appearance:	N/A
Storage:	0-4°C for short te

Biological Description

Description	Gancaonin G shows antibacterial effects on the MRSA strains with MIC values of 16 microg/ml, it also shows more moderate antibacterial activity against Streptococcus mutans.
Targets(IC ₅₀)	Antifection: None
In vitro	METHODS AND RESULTS: From the roots of Glycyrrhiza uralensis, two new pterocarpenes, glycyrrhizol A (1) and glycyrrhizol B (2), along with four known isoflavonoids, 5-O-methylglycryol (3), isoglycyrol (4), 6,8-diisoprenyl- 5,7,4'-trihydroxyisoflavone (5), and Gancaonin G (6), were isolated using a bioassay-guided fractionation method. The structures of the new compounds (1 and 2) were elucidated by spectroscopic data interpretation. The known compounds (3-6) were identified by comparison of their spectroscopic data with reported values in the literature. CONCLUSIONS: Glycyrrhizol A (1) and 6,8-diisoprenyl-5,7,4'-trihydroxyisoflavone (5) exhibited potent antibacterial activity against Streptococcus mutans with minimum inhibitory concentrations of 1 and 2 microg/mL, respectively, while glycyrrhizol B (2) and Gancaonin G (6) showed more moderate activity.

Solubility Information

Solubility

< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.838 mL	14.189 mL	28.378 mL
5 mM	0.568 mL	2.838 mL	5.676 mL
10 mM	0.284 mL	1.419 mL	2.838 mL
50 mM	0.057 mL	0.284 mL	0.568 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 $^{\circ}$ C for 6 months; - 20 $^{\circ}$ C for 1 month. Please use it as soon as possible.

Reference

1. Antibacterial compounds from Glycyrrhiza uralensis. J Nat Prod. 2006 Jan;69(1):121-4.

2. Phenolic constituents of licorice. VIII. Structures of glicophenone and glicoisoflavanone, and effects of licorice phenolics on methicillinresistant Staphylococcus aureus. Chem Pharm Bull (Tokyo). 2000 Sep;48(9):1286-92.

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