

Decuroside I

Chemical Properties

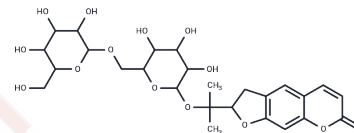
CAS No. : 96638-79-8

Formula: C₂₆H₃₄O₁₄

Molecular Weight: 570.544

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	Decuroside I shows weak inhibiting activity against the primary and secondary wave aggregation of human platelet.
In vitro	METHODS AND RESULTS: Three kinds of new coumarin-glycosides, Decuroside I (1), Decuroside II (2), Decuroside III (3), which were isolated from the N-butanol extracts of the crude drug Zi-Hua Qian-Hu, the root of PEUCEDANUM DECURSIVUM Maxim. (Umbelliferae), were elucidated to be nodakenetin-4'-O-β-gentiobiose, nodakenetin-4'-O-β-isomaltose and nodakenetin-4'-O-β-maltose, respectively, by the methods of chemical and spectral analysis. These three new compounds as well as Decuroside IV (4), decuroside V (5) and nodakenin (6) which were also isolated from Zi-Hua Qian-Hu were tested on human platelet aggregation induced by 2 μM ADP. CONCLUSIONS: Among these coumarin-glycosides, 3 and 4, showed the strongest inhibiting activity against the primary and secondary wave aggregation of human platelet. 1 and 2 had a less inhibiting effect or none at all, and 5 was rather promotive against the primary wave aggregation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7527 mL	8.7636 mL	17.5273 mL
5 mM	0.3505 mL	1.7527 mL	3.5055 mL
10 mM	0.1753 mL	0.8764 mL	1.7527 mL
50 mM	0.0351 mL	0.1753 mL	0.3505 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

Studies on coumarins of a Chinese drug Planta Med.,1986, 52(02):135-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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