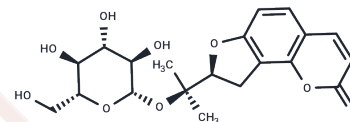


Columbianetin beta-D-glucopyranoside

Chemical Properties

CAS No. :	55836-35-6
Formula:	C ₂₀ H ₂₄ O ₉
Molecular Weight:	408.4
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	Columbianetin-beta-D-glucopyranoside exhibits anti-inflammatory and analgesic properties, it also shows strong inhibiting activity against platelet aggregation.
In vitro	METHODS AND RESULTS: Eight coumarins isolated from the alcohol extract of the Chinese drug 'Duhuo', the root of <i>Angelica pubescens</i> Maxim. f. <i>biserrata</i> Shan et Yuan (Umbelliferae) were elucidated to be columbianetin (I), columbianetin acetate (II), columbiadin (III), osthol (IV), isoimperatorin (V), bergapten (VI), xanthotoxin (VII), and Columbianetin beta-D-glucopyranoside (VIII), by chemical and spectral analysis, compound VIII was isolated from plant for the first time. CONCLUSIONS: All these coumarins were tested on platelet aggregation induced by 2 microns ADP. I, II, III, IV and VIII showed strong inhibiting activity against platelet aggregation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4486 mL	12.2429 mL	24.4858 mL
5 mM	0.4897 mL	2.4486 mL	4.8972 mL
10 mM	0.2449 mL	1.2243 mL	2.4486 mL
50 mM	0.049 mL	0.2449 mL	0.4897 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 of the active constituents of the Chinese drug Yao Xue Xue Bao. 1989;24(7):546-51.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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