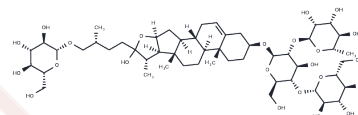


Protodeltonin

Chemical Properties

CAS No. :	94992-08-2
Formula:	C ₅₁ H ₈₄ O ₂₃
Molecular Weight:	1065.21
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	Protodeltonin may have anti-thrombotic activity by both improving the anticoagulation activity and inhibiting platelet aggregation action. Protodeltonin can inhibit the proliferation of a panel of established human and murine cancer cell lines in vitro.
Targets(IC50)	Bcl-2 Family,Caspase,PARP
In vitro	In this study, we isolated and identified seven steroidal saponins from the rhizomes of DZW: diosgenin, trillin, diosgenin diglucoside, deltonin, zingiberensis saponin (ZS), Protodeltonin and parvifloside. Our results showed that these seven compounds inhibited the proliferation of a panel of established human and murine cancer cell lines in vitro. ZS had more cytotoxic effect than the other saponins, even close to doxorubicin on the murine colon carcinoma cell line C26. The proliferation inhibitory effect of ZS was associated with its apoptosis-inducing effect by activation of caspase-3 and caspase-9 and specific proteolytic cleavage of poly (ADP-ribose) polymerase. Exposure of C26 to ZS also resulted in Bax upregulation and Bcl-2 downregulation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9388 mL	4.6939 mL	9.3878 mL
5 mM	0.1878 mL	0.9388 mL	1.8776 mL
10 mM	0.0939 mL	0.4694 mL	0.9388 mL
50 mM	0.0188 mL	0.0939 mL	0.1878 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

Cytotoxicity and apoptosis-inducing effect of steroidal saponins from *Dioscorea zingiberensis* Wright against cancer cells. *Steroids*. 2012 Oct;77(12):1219-27.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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