Data Sheet (Cat.No.TN2040)

TargetMol

Panaxynol

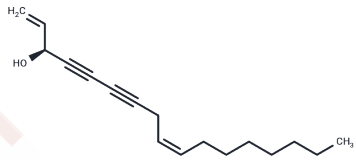
Chemical Properties

CAS No. : 81203-57-8

Formula: C17H24O

Molecular Weight: 244.37

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	Panaxynol is the most potent antiplatelet agent in ginseng and its mechanism of action is chiefly due to the inhibition of thromboxane formation.
Targets(IC50)	Bcl-2 Family,Caspase,HIF
In vitro	Panaxynol (0.1 mg/ml) inhibited markedly the aggregation of washed platelets induced by collagen, arachidonic acid, ADP, ionophore A23187, PAF and thrombin while ginsenosides had no significant effect on the aggregation but ginsenoside Ro (1 mg/ml) inhibited the ATP release of platelets. Less inhibitory effect of Panaxynol was observed in the aggregation of platelet-rich plasma. Thromboxane B2 formation of platelets was inhibited by Panaxynol but not by ginsenosides. The antiplatelet effect of Panaxynol was dependent on the incubation time and the aggregability of platelets inhibited by Panaxynol could not easily be recovered after washing the platelets. In human platelet-rich plasma, Panaxynol prevented secondary aggregation and completely blocked ATP release from platelets induced by epinephrine and ADP. Both Panaxynol and ginsenoside Rg2 inhibited the rise of intracellular calcium caused by collagen[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0922 mL	20.4608 mL	40.9216 mL
5 mM	0.8184 mL	4.0922 mL	8.1843 mL
10 mM	0.4092 mL	2.0461 mL	4.0922 mL
50 mM	0.0818 mL	0.4092 mL	0.8184 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

Antiplatelet actions of panaxynol and ginsenosides isolated from ginseng.Biochim Biophys Acta. 1989 Mar 24;990 (3):315-20.

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