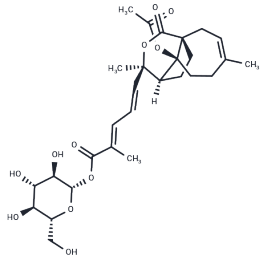
Data Sheet (Cat.No.TN1115)

TargetMol

Pseudolaric acid A-O-β-D-glucopyranoside

Chemical Properties



CAS No. : 98891-44-2

Formula: C28H38O11

Molecular Weight: 550.60

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	Pseudolaric acid A-O-β-D-glucopyranoside (Pseudolaric acid A-O-beta-D-glucopyranoside) is a natural product with antibacterial, anticancer, and antifungal properties.
Targets(IC50)	Antifungal
In vitro	A reversed phase high-performance liquid chromatography method was established for the first time to simultaneously qualify the seven major diterpenoids in Pseudolarix kaempferi, namely pseudolaric acid B O-beta-D-glucopyranoside (1), pseudolaric acid C2 (2), pseudolaric acid C1 (3), deacetylpseudolaric acid A (4), Pseudolaric acid A-O-beta-D-glucopyranoside (5), pseudolaric acid B (6) and pseudolaric acid A (7). The optimal conditions of separation and detection were achieved on an Inertsil ODS-3 column with gradient elution of methanol and 0.5% aqueous acetic acid (v/v) at the flow rate of 0.6 ml min(-1) within 40 min and detection wavelength set at 262 nm. All calibration curves showed good linear regression (r2>0.9999) within test ranges. This method provided good accuracy with recoveries in the range of 94.3-106.1% and good precision with R.S.D.s of repeatability and intermediate precision less than 0.57% and 4.67%, respectively. The method was successfully applied to qualitative and quantitative determination of 20 P. kaempferi among the 54 samples collected from different areas.

Solubility Information

Solubility	DMSO: 25 mg/mL (45.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.63 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8162 mL	9.081 mL	18.162 mL
5 mM	0.3632 mL	1.8162 mL	3.6324 mL
10 mM	0.1816 mL	0.9081 mL	1.8162 mL
50 mM	0.0363 mL	0.1816 mL	0.3632 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

Simultaneous determination of seven major diterpenoids in Pseudolarix kaempferi by high-performance liquid chromatography DAD method.J Pharm Biomed Anal. 2007 Jul 27;44(3):730-6.