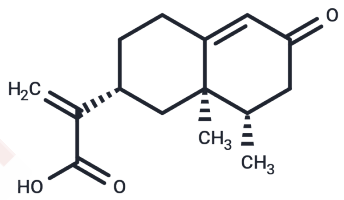
Data Sheet (Cat.No.TN6511)

TargetMol

Tessaric acid

Chemical Properties



CAS No. : 58142-10-2

Formula: C15H20O3

Molecular Weight: 248.32

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	Tessaric acid has antifeedant and allelochemical effects. Tessaric acid derivatives induce G/M cell cycle arrest in human solid tumor cell lines.
In vitro	METHODS AND RESULTS:A series of analogs were synthesized in a straightforward manner from naturally available sesquiterpenes ilicic acid and Tessaric acid. The in vitro antiproliferative activities were examined in the human solid tumor cell lines A2780, HBL-100, HeLa, SW1573, T-47D and WiDr. The most potent analog induced considerably growth inhibition in the range 1.9-4.5 microM. CONCLUSIONS: Cell cycle studies for Tessaric acid derivatives indicated a prominent arrest of the cell cycle at the G(2)/M phase. Damage to the cells was permanent as determine by the so called 24+24 drug schedule.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0271 mL	20.1353 mL	40.2706 mL
5 mM	0.8054 mL	4.0271 mL	8.0541 mL
10 mM	0.4027 mL	2.0135 mL	4.0271 mL
50 mM	0.0805 mL	0.4027 mL	0.8054 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

Tessaric acid derivatives induce G2/M cell cycle arrest in human solid tumor cell lines. Bioorg Med Chem. 2009 Sep 1;17(17):6251-6.

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