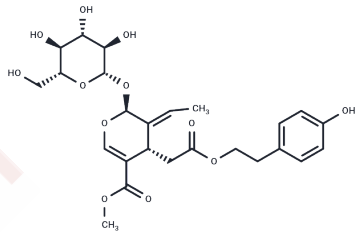
Data Sheet (Cat.No.TN1871)

TargetMol

Ligustroside

Chemical Properties



CAS No. : 35897-92-8

Formula: C25H32O12

Molecular Weight: 524.51

Storage: Keep away from moistureKeep away from direct sunlight
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	Ligustroside is a natural product of phenolic glycosides from olive plants, which has antioxidant and anti-inflammatory activities. Ligustroside can up-regulate the mRNA expression of SIRT1, CREB1 and GPx1 in SH-SY5Y-APP695 cells. At the same time, the production of nitric oxide (NO) was significantly inhibited in RAW264.7 macrophages stimulated by lipopolysaccharide (LPS). Ligustroside has potential application value in cardiovascular and metabolic diseases related research.
Targets(IC50)	Epigenetic Reader Domain,NO Synthase,GPX,Sirtuin
In vitro	Hydrolysis of oleoside-type secoiridoid glucosides, oleuropein (1) and Ligustroside (2), in the presence of β-glucosidase provided their aglycones, named (5S,8R,9S)-7-3,4-dihydroxyphenethyl elenolate (3) and (5S,8R,9S)-7-4-hydroxyphenethyl elenolate (4), respectively. The structures of 3 and 4 were identified by spectroscopic means and optical rotation measurements[1]

Solubility Information

Solubility	DMSO: 100 mg/mL (190.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9065 mL	9.5327 mL	19.0654 mL
5 mM	0.3813 mL	1.9065 mL	3.8131 mL
10 mM	0.1907 mL	0.9533 mL	1.9065 mL
50 mM	0.0381 mL	0.1907 mL	0.3813 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

Cytotoxic and EGFR tyrosine kinase inhibitory activities of aglycone derivatives obtained by enzymatic hydrolysis of oleoside-type secoiridoid glucosides, oleuropein and ligustroside. J Nat Med. 2011 Jan;65(1):237-40.