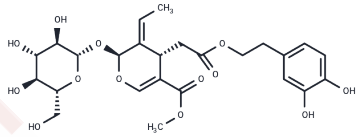
Data Sheet (Cat.No.T6917)

TargetMol

Oleuropein

Chemical Properties



CAS No. : 32619-42-4

Formula: C25H32O13

Molecular Weight: 540.51

Storage: Store at low temperature,Store under nitrogen,Keep 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	Oleuropein is an antioxidant polyphenol isolated from olive leaf.
Targets(IC50)	Apoptosis,Aromatase,Cytochromes P450,PPAR,ROS
In vitro	In both J774A.1 cells and primary mouse macrophages, Oleuropein increases LPS-induced NO production. [1] Oleuropein prevents oxidative myocardial injury induced by ischemia and reperfusion. [2] In TF-1a; 786-O, T-47D, RPMI-7951, LoVo, and NL-Fib cells, Oleuropein inhibits cell proliferation and migration. [3]
In vivo	In swiss albino mice that spontaneously develop soft tissue sarcomas, Oleuropein (i.p. or p.o.) completely regresses tumors. [3] In rats, Oleuropein (40 mg/kg, p.o.) protects from cardiac remodeling process after isoproterenol-induced myocardial infarction through inhibiting angiotensin-converting enzyme activity. [4]

Solubility Information

Solubility	DMSO: 50 mg/mL (92.51 mM),Sonication is recommended. H2O: 92 mg/mL (170.21 mM),Sonication is recommended. Ethanol: 93 mg/mL (172.06 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 (3.7 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	1.8501 mL	9.2505 mL	18.501 mL
5 mM	0.370 mL	1.8501 mL	3.7002 mL
10 mM	0.185 mL	0.9251 mL	1.8501 mL
50 mM	0.037 mL	0.185 mL	0.370 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

Visioli F, et al. Life Sci. 1998,62(6), 541-546.
Manna C, et al. J Nutr Biochem. 2004, 15(8), 461-466.
Hamdi HK, et al. Biochem Biophys Res Commun. 2005, 334(3), 769-778.
Mnafgui K, et al. Toxicol Mech Methods. 2015, 1-9.