

Data Sheet (Cat.No.TN4708)

Olivil

Chemical Properties

CAS No.:	2955-23-9
Formula:	C ₂₀ H ₂₄ O ₇
Molecular Weight:	376.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	(-)-Olivil displays a higher antioxidative effect against the free radical DPPH.
Targets(IC ₅₀)	Others: None
In vitro	The purpose of this study was to complete knowledge on the chemical composition and radical-scavenging activity of olive tree wood. METHODS AND RESULTS: Two new monoterpene glycosides, (-)-oleuropeic acid 6'-O- α -D-glucopyranosyl ester (6a) and (-)-perillic acid 1'-O- β -D-primeverosyl ester (8), together with the known compounds (-)-oleuropeic acid (1), (-)-Olivil (2), the aldehydic form of oleuropein aglycone (3), (+)-1-hydroxypinoresinol 1-O- β -D-glucopyranoside (4), (-)-oleuropeic acid 1'-O- β -D-glucopyranosyl ester (5), (-)-oleuropeic acid 6'-O- β -D-glucopyranosyl ester (6b), and (-)-Olivil 4-O- β -D-glucopyranoside (7) were isolated from an ethyl acetate extract. The radical scavengers found (2-4 and 7) were detected and isolated with the help of the online HPLC-DAD-DPPH/ABTS technique. CONCLUSIONS: Compounds 2-4 and 7 displayed a higher antioxidative effect against the free radical DPPH than the reference BHT and lower than hydroxytyrosol, whereas compounds 1, 5, 6a, 6b, and 8 showed no activity.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.657 mL	13.284 mL	26.567 mL
5 mM	0.531 mL	2.657 mL	5.313 mL
10 mM	0.266 mL	1.328 mL	2.657 mL
50 mM	0.053 mL	0.266 mL	0.531 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Radical-scavenging compounds from olive tree (*Olea europaea* L.) wood. *J Agric Food Chem.* 2014 Jan 8;62(1):144-51.
2. (-)-olivil and (+)-1-acetoxypinoresinol from the olive tree (*Olea europaea* Linne; Oleaceae) as feeding stimulants of the olive weevil (*Dyscerus perforatus*). *Biosci Biotechnol Biochem.* 2003 Feb;67(2):415-9.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481