



LKT Laboratories, Inc.

## Oleuropein

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### Product Information

**Product ID** O446185

**CAS No.** 32619-42-4

**Chemical Name** (2S,3E,4S)-3-ethylidene-2-(β-D-glucopyranosyloxy)-3,4-dihydro-5-(methoxycarbonyl)-2H-pyran-4-acetic acid, 2-(3,4-dihydroxyphenyl) ethyl ester

**Synonym**

**Formula** C<sub>25</sub>H<sub>32</sub>O<sub>13</sub>

**Formula Wt.** 540.52

**Melting Point**

**Purity** ≥98%

**Solubility** DMSO:100 mg/mL (185.01 mM)

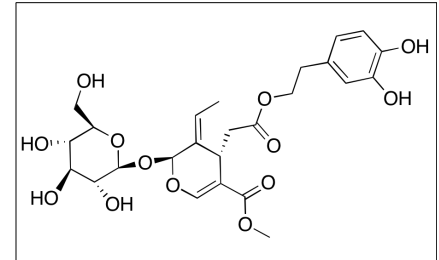
Water:100 mg/mL warmed (185.01 mM)

Ethanol:100 mg/mL warmed

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Oleuropein is a bioactive compound found in all parts of the olive tree. Oleuropein has been shown to reduce intracellular ROS generation, inhibit apoptosis, stabilize mitochondrial membrane potential, modulate apoptotic proteins, and increase phosphorylation of Akt and ERK1/2 in neonatal rat cardiomyocytes subjected to simulation of ischemia/reperfusion. Additionally, oleuropein has been found to decrease COX-2 expression, suppress IL-17 in mucosa and supernatant, and attenuate inflammatory damage in colonic biopsy cultures or samples of ulcerative colitis. Furthermore, oleuropein was found to significantly increase radiosensitivity of nasopharyngeal carcinoma cells by reducing expression of HIF1alpha, in addition to altering expressions of miRNAs and genes.



**Bulk quantities available upon request**

Product ID	Size
O446185	10 mg
O446185	25 mg
O446185	100 mg
O446185	250 mg

**References** Zhao Q, Bai Y, Li C, et al. Oleuropein protects cardiomyocyte against apoptosis via activating the reperfusion injury salvage kinase pathway in vitro. *Evid Based Complement Alternat Med.* 2017. 2017:2109018. PMID: 28491103.

Larussa T, Oliverio M, Suraci E, et al. Oleuropein decreases cyclooxygenase-2 and interleukin-17 expression and attenuates inflammatory damage in colonic samples from ulcerative colitis patients. *Nutrients.* 2017 Apr 15;9(4).pii:E391. PMID: 28420140.

Xu T, Xiao D. Oleuropein enhances radiation sensitivity of nasopharyngeal carcinoma by downregulating PDRG1 through HIF1alpha-repressed microRNA-519d. *J Exp Clin cancer Res.* 2017 Jan 5;36(1):3. PMID: 28057028.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.