Oleuropein

Cat. No.:	HY-N0292					
CAS No.:	32619-42-4					
Molecular Formula:	C ₂₅ H ₃₂ O ₁₃					
Molecular Weight:	540.51					
Target:	PPAR; Apoptosis; Cytochrome P450					
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Apoptosis HO ₂					
Storage:	Powder	-20°C 4°C	3 years 2 years			
	In solvent	-80°C	6 months			
		-20°C	1 month			

SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (231.26 mM; Need ultrasonic) H ₂ O : ≥ 20 mg/mL (37.00 mM) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg		
		1 mM	1.8501 mL	9.2505 mL	18.5010 mL		
		5 mM	0.3700 mL	1.8501 mL	3.7002 mL		
		10 mM	0.1850 mL	0.9251 mL	1.8501 mL		
	Please refer to the sol						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.85 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.85 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.85 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description

Oleuropein, found in olive leaves and oil, exerts antioxidant, anti-inflammatory and anti-atherogenic effects through direct inhibition of PPARy transcriptional activity^[1]. Oleuropein induces apoptosis in breast cancer cells via the p53-dependent pathway and through the regulation of Bax and Bcl2 genes. Oleuropein also inhibits aromatase^[2].

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Product Data Sheet



IC ₅₀ & Target	PPARγ	Aromatase	Apoptosis	Aromatase			
In Vitro	Aromatase, a cytochrome P450 enzyme, is an important pharmacological target in breast cancer therapy ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.						

CUSTOMER VALIDATION

• Tissue Cell. October 2022, 101876.

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REFERENCES

[1]. Svobodova M, et al. Oleuropein as an inhibitor of peroxisome proliferator-activated receptor gamma. Genes Nutr. 2014 Jan;9(1):376.

[2]. Gorzynik-Debicka M, et al. Potential Health Benefits of Olive Oil and Plant Polyphenols. Int J Mol Sci. 2018 Feb 28;19(3). pii: E686.

Caution: Product has not been fully validated for medical applications. For research use only.

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