Product Datasheet

Technical Data

Formula	$C_{25}H_{32}O_{13}$					
Molecular Weight	540.51	**CAS No.**	32619-42-4			
Solubility (25°C)*	In vitro	DMSO	250 mg/mL (462.52 mM)			
		Ethanol	100 mg/mL (185.01 mM)			
		Water	63 mg/mL (116.55 mM)			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.
		Injection	Clear solution	PBS Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	30.000mg/ml (55.50mM)	

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Biological Activity

Description	Oleuropein is an antioxidant polyphenol isolated from olive leaf. It exerts antioxidant, anti-inflammatory and anti-atherogenic effects and suppresses the adipocyte differentiation in vitro. This compound inhibits **PPARγ** activity. It exerts anti-adipogenic effect through direct inhibition of PPARγ transcriptional activity. This chemical also inhibits **aromatase**. It induces **apoptosis**. Phase 2.
In vitro	In both J774A.1 cells and primary mouse macrophages, Oleuropein increases LPS-induced NO production. [1] This compound prevents oxidative myocardial injury induced by ischemia and reperfusion. [2] In TF-1a; 786-O, T-47D, RPMI-7951, LoVo, and NL-Fib cells, it 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, this compound (40 mg/kg, p.o.) protects from cardiac remodeling process after isoproterenol-induced myocardial infarction through inhibiting angiotensin-converting enzyme activity. [4]

Protocol (from reference)

Cell Assay:[3]

- **Cell lines**
  TF-1a; 786-O, T-47D, RPMI-7951, LoVo, and NL-Fib cells
- **Concentrations**
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- **Incubation Time**
  5 days
- **Method**
  Approximately 5 × 10^3 cells (TF-1a; 786-O, T-47D, RPMI-7951, LoVo, and NL-Fib) are seeded in triplicate wells of 96-well plates in 100 µl of their respective growth medium with increasing doses of purified Oleuropein. Cell proliferation is determined on day 5 using the CellTiter MTS cell proliferation kit according to the manufacturer's instructions. Absorbance at 490 nm is measured with a Bio-Tek Instruments microplate reader. Background readings are subtracted from the experimental readings.

Animal Study:[3]

- **Animal Models**
  Swiss albino mice that spontaneously develops soft tissue sarcomas
- **Dosages**
  50 µg/mouse
- **Administration**
  i.p. or p.o.

References

https://pubmed.ncbi.nlm.nih.gov/9464466/ https://pubmed.ncbi.nlm.nih.gov/15302080/ https://pubmed.ncbi.nlm.nih.gov/16024000/

+ Expand

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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