

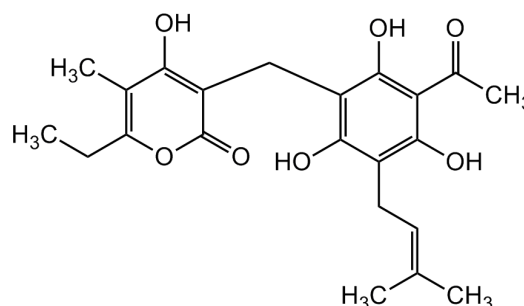
**AG-CN2-0500**

08-Nov-2016

**Arzanol**

[Homoarenol; 3-[[3-Acetyl-2,4,6-trihydroxy-5-(3-methyl-2-buten-1-yl)phenyl]methyl]-6-ethyl-4-hydroxy-5-methyl-2H-pyran-2-one]

AG-CN2-0500-M001      1 mg  
Formula      C<sub>22</sub>H<sub>26</sub>O<sub>7</sub>  
MW      402.4  
CAS      32274-52-5



**Handling / Storage**

Shipping      AMBIENT  
Short Term Storage      +4°C  
Long Term Storage      -20°C

Keep cool and dry. Protect from light and moisture.

**Use / Stability**

Stable for at least 2 years after receipt when stored at -20°C.

MSDS available at [www.adipogen.com](http://www.adipogen.com) or upon request.

**Product Specifications**

Source/Host      Isolated from *Helichrysum italicum*.  
Purity      ≥98% (NMR)  
Identity      Determined by <sup>1</sup>H-NMR.  
Appearance      Off-white solid to pale yellow solid.  
Solubility      Soluble in DMSO, dichloromethane, acetone or 100% ethanol. Poorly soluble in water.

**Product Description**

- Anti-inflammatory compound. Potent dual inhibitor of pro-inflammatory transcription factors and inflammatory enzymes.
- Inhibitor of NFκB activation.
- Potent inhibitor of inducible microsomal prostaglandin E2 synthase-1 (mPGES-1), the terminal synthase responsible for the synthesis of the pro-tumorigenic prostaglandin E2 (PGE2).
- Antioxidant. 5-Lipoxygenase (5-LO) inhibitor.
- Antibacterial compound.
- HIV-1 replication inhibitor.

**WARNING:** Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

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**Product Specific References**

1. Arzanol, an anti-inflammatory and anti-HIV-1 phloroglucinol alpha-Pyrone from *Helichrysum italicum* ssp. *microphyllum*: G. Appendino, et al.; J. Nat. Prod. **70**, 608 (2007)
2. Evaluation of the antioxidant and cytotoxic activity of arzanol, a prenylated alpha-pyrone-phloroglucinol etherodimer from *Helichrysum italicum* subsp. *microphyllum*: A. Rosa, et al.; Chem. Biol. Interact. **165**, 117 (2007)
3. Arzanol, a prenylated heterodimeric phloroglucinyl pyrone, inhibits eicosanoid biosynthesis and exhibits anti-inflammatory efficacy in vivo: J. Bauer, et al.; Biochem. Pharmacol. **81**, 259 (2011)
4. Protective role of arzanol against lipid peroxidation in biological systems: A. Rosa, et al.; Chem. Phys. Lipids **164**, 24 (2011)
5. A Multicomponent Carba-Betti Strategy to Alkylidene Heterodimers - Total Synthesis and Structure - Activity Relationships of Arzanol: A. Minassi, et al.; Eur. J. Org. Chem. 772 (2012)
6. Arzanol, a potent mPGES-1 inhibitor: Novel anti-inflammatory agent: P. S. Kothavade, et al.; Sci. World J. **2013**, 986429 (2013) (Review)
7. Antimicrobial phenolics and unusual glycerides from *Helichrysum italicum* subsp. *microphyllum*: O. Tagliatatela-Scafati, et al.; J. Nat. Prod. **76**, 346 (2013)

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