



## Product Information

**Product ID** I524088

**CAS No.** 34701-53-6

**Chemical Name** (1R,2S,5E,9E,12S)-(9Cl)-1,5,9-Trimethyl-12-(1-methylethyl)-15-oxabicyclo[10.2.1]pentadeca-5,9-dien-2-ol acetate

**Synonym** Incensole Acetate, (+)-Incensol acetate, (+)-Incensole acetate

**Formula** C<sub>22</sub>H<sub>36</sub>O<sub>3</sub>

**Formula Wt.** 348.53

**Melting Point**

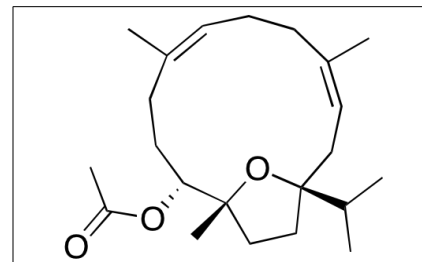
**Purity** ≥98%

**Solubility** Soluble in DMSO, dichloromethane or ethyl ether. Insoluble in water. Almost insoluble in ethanol or methanol.

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Incensol acetate is a natural constituent found in frankincense resin and is a potent bioactive diterpenic cembrenoid. Frankincense extract has traditionally been used to treat various inflammatory diseases including arthritis. Several of the individual components in frankincense, including incensol acetate, have shown anti-inflammatory activity in mice. Incensol acetate was found to activate transient receptor potential vanilloid 3, a protein that is involved in temperature sensation in the skin, hair growth, and neurological activities. Incensol acetate has also been found to inhibit activation of Burkitt's lymphoma derived Raji cells, and in addition, has shown an antidepressant-like effect in the forced swim test in mice, and possibly modulates the hypothalamic-pituitary-adrenal axis.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
I524088	1 mg	\$114.50
I524088	5 mg	\$321.90
I524088	10 mg	\$572.40

**References** Banno N, Akihisa T, Yasukawa K, et al. Anti-inflammatory activities of the triterpene acids from the resin of *Boswellia carteri*. J Ethnopharmacol. 2006 Sep 19;107(2):249-253. PMID: 16621377.

Pollastro F, Golin S, Chianese G, et al. Neuroactive and anti-inflammatory frankincense cembranes: a structure-activity study. J Nat Prod. 2016 Jul 22;79(7):1762-1768. PMID: 27352042.

Akihisa T, Tabata K, Banno N, et al. Cancer chemopreventive effects and cytotoxic activities of the triterpene acids from the resin of *Boswellia carteri*. Biol Pharm Bull. 2006 Sep;29(9):1976-1979. PMID: 16945622.

Moussaieff A, Gross M, Nesher E, et al. Incensole acetate reduces depressive-like behavior and modulates hippocampal BDNF and CRF expression in submissive animals. J Psychopharmacol. 2012 Dec;26(12):1584-1593. PMID: 23015543.

Moussaieff A, Yu J, Zhu H, et al. Protective effects of incensole acetate on cerebral ischemic injury. Brain res. 2012 Mar 14;1443:89-97. PMID: 22284622.

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