



LKT Laboratories, Inc.

Auraptene

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Product Information

Product ID A8070

CAS No. 495-02-3

Chemical Name

Synonym 7-Geranyloxycoumarin, Auraptene

Formula $C_{19}H_{22}O_3$

Formula Wt. 298.38

Melting Point

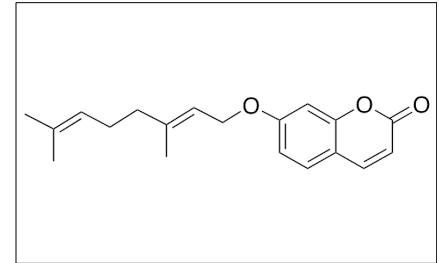
Purity $\geq 98\%$

Solubility Soluble in methanol, ethanol, DMSO (50mM), and ethyl acetate. Insoluble in water.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Auraptene is a monoterpene coumarin originally found in *Citrus* species. Auraptene exhibits anti-inflammatory, neuroprotective, anti-parasitic, antihypertensive, anti-diabetic, and chemopreventive activities. Auraptene inhibits growth of species of *Leishmania*, decreases mean arterial pressure, binds estrogen receptors, inhibits ACAT, and induces phase II metabolizing enzymes. Auraptene also inhibits LPS-induced COX-2 expression, loss of body weight, activation of microglia and astrocytes, and brain inflammation in animal models of cerebral ischemia. Additionally, auraptene activates PPAR α , improving high fat diet-induced hyperglycemia and alterations in glucose tolerance. This compound also decreases expression of cyclin D1 and delays tumor formation in animal models of mammary carcinogenesis.



Bulk quantities available upon request

Product ID	Size
A8070	25 mg
A8070	100 mg
A8070	500 mg

References Okuyama S, Yamamoto K, Mori H, et al. Auraptene in the Peels of *Citrus kawachiensis* (Kawachi Bankan) Ameliorates Lipopolysaccharide-Induced Inflammation in the Mouse Brain. *Evid Based Complement Alternat Med.* 2014;2014:408503. PMID: 24955102.

Imenshahidi M, Eghbal M, Sahebkar A, et al. Hypotensive activity of auraptene, a monoterpene coumarin from *Citrus* spp. *Pharm Biol.* 2013 May;51(5):545-9. PMID: 23368941.

Okuyama S, Minami S, Shimada N, et al. Anti-inflammatory and neuroprotective effects of auraptene, a citrus coumarin, following cerebral global ischemia in mice. *Eur J Pharmacol.* 2013 Jan 15;699(1-3):118-23. PMID: 23219792.

Krishnan P, Kleiner-Hancock H. Effects of Auraptene on IGF-1 Stimulated Cell Cycle Progression in the Human Breast Cancer Cell Line, MCF-7. *Int J Breast Cancer.* 2012;2012:502092. PMID: 23320178.

Takahashi N, Senda M, Lin S, et al. Auraptene regulates gene expression involved in lipid metabolism through PPAR α activation in diabetic obese mice. *Mol Nutr Food Res.* 2011 Dec;55(12):1791-7. PMID: 22038981.

de Medina P, Genovese S, Paillasse MR, et al. Auraptene is an inhibitor of cholesterol esterification and a modulator of estrogen receptors. *Mol Pharmacol.* 2010 Nov;78(5):827-36. PMID: 20702762.

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