

LKT Laboratories, Inc.

Psoralidin

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Product Information

Product ID P7359
CAS No. 18642-23-4
Chemical Name 3,9-Dihydroxy-2-(3-methyl-2-butenyl)-6H-benzofuro[3,2-c][1]benzopyran-6-one

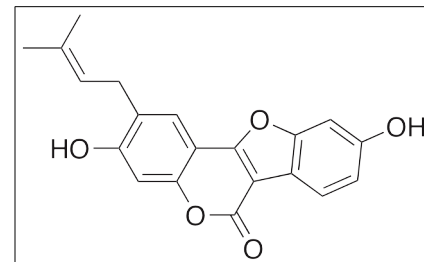
Synonym 6-(3-methylbut-2-enyl)coumestrol

Formula C₂₀H₁₆O₅
Formula Wt. 336.34
Melting Point 290-292 °C
Purity ≥98%
Solubility

Store Temp Ambient

Ship Temp Ambient

Description Psoralidin is a phenol originally found in *Psoralea corylifolia* that exhibits antibacterial, antioxidative, anticancer, and antidepressant activities. Psoralidin is a broad spectrum antibiotic, inhibiting both gram positive and gram negative bacteria. In various cellular models, psoralidin inhibits phosphorylation of IκB kinase, inhibits translocation of NF-κB, downregulates expression of iNOS, and induces expression of quinone reductase. Psoralidin also inhibits activation of EGRF, downregulating MAPK signaling and inhibiting proliferation of androgen-independent prostate cancer cells. In breast cancer stem cells, this compound downregulates Notch1 signaling and induces apoptosis, inhibiting cell growth. Additionally, psoralidin modulates levels of serotonin (5-HT) and dopamine and decreases stress-induced expression of corticotropin-releasing factor (CRF) and adrenocorticotrophic hormone (corticotropin; ACTH). In the forced swim test, an animal model of depression-like activity, psoralidin decreased immobility time and increased swimming behavior without affecting general locomotor activity.



Bulk quantities available upon request

Product ID	Size
P7359	10 mg
P7359	25 mg
P7359	100 mg

- References** Suman S, Das TP, Damodaran C. Silencing NOTCH signaling causes growth arrest in both breast cancer stem cells and breast cancer cells. *Br J Cancer*. 2013 Nov 12;109(10):2587-96. PMID: 24129237.
- Chopra B, Dhingra AK, Dhar KL. *Psoralea corylifolia* L. (Buguchi) - folklore to modern evidence: review. *Fitoterapia*. 2013 Oct;90:44-56. PMID: 23831482.
- Chiou WF, Don MJ, Liao JF, et al. Psoralidin inhibits LPS-induced iNOS expression via repressing Syk-mediated activation of PI3K-IKK-IκB signaling pathways. *Eur J Pharmacol*. 2011 Jan 10;650(1):102-9. PMID: 20951127.
- Kumar R, Srinivasan S, Pahari P, et al. Activating stress-activated protein kinase-mediated cell death and inhibiting epidermal growth factor receptor signaling: a promising therapeutic strategy for prostate cancer. *Mol Cancer Ther*. 2010 Sep;9(9):2488-96. PMID: 20736346.
- Lee SJ, Nam KW, Mar W. Induction of quinone reductase activity by psoralidin isolated from *Psoralea corylifolia* in mouse hepa 1c1c7 cells. *Arch Pharm Res*. 2009 Jul;32(7):1061-5. PMID: 19641888.
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- Khatune NA, Islam ME, Haque ME, et al. Antibacterial compounds from the seeds of *Psoralea corylifolia*. *Fitoterapia*. 2004 Mar;75(2):228-30. PMID: 15030932.

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