



LKT Laboratories, Inc.

Podophyllotoxin

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Product Information

Product ID P5712

CAS No. 518-28-5

Chemical Name (5R,5aR,8aR,9R)-5,8,8a,9-Tetrahydro-9-hydroxy-5-(3,4,5-trimethoxyphenyl)furo(3',4':6,7)naphtho(2,3-d)-1,3-dioxol-6(5aH)-one

Synonym Podofilox, Podophyllinic acid lactone

Formula C₂₂H₂₂O₈

Formula Wt. 414.41

Melting Point 114-118°C : After drying

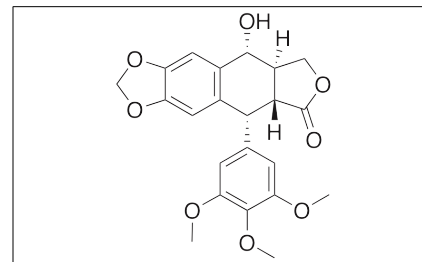
Purity ≥90%

Solubility Slightly soluble in water (0.12 mg/mL). Soluble in chloroform, acetone, ethyl acetate, ethanol, methanol.

Store Temp -20°C

Ship Temp Ambient

Description Podophyllotoxin is a non-alkaloid lignan found in species of *Podophyllum* that exhibits anticancer and antiviral activities. Podophyllotoxin displays antimetabolic action, binding tubulin and inhibiting mitotic spindle formation. Derivatives of this compound inhibit topoisomerase II. In gastric cancer cells, podophyllotoxin induces G2/M phase cell cycle arrest and apoptosis, decreases the mitochondrial membrane potential, increases cytochrome c release, and inhibits cellular proliferation. Podophyllotoxin is occasionally clinically used to treat human papilloma virus (HPV) infection, as it inhibits viral reproduction through inhibition of E2 protein activity.



Bulk quantities available upon request

Product ID	Size
P5712	50 mg
P5712	100 mg
P5712	500 mg

References Ji CF, Ji YB. Apoptosis of human gastric cancer SGC-7901 cells induced by podophyllotoxin. *Exp Ther Med.* 2014 May;7(5):1317-1322. PMID: 24940431.

Ramírez-Fort MK, Au SC, Javed SA, et al. Management of cutaneous human papillomavirus infection: pharmacotherapies. *Curr Probl Dermatol.* 2014;45:175-85. PMID: 24643186.

Li J, Dai CX, Sun H, et al. Protective effects and mechanisms of curcumin on podophyllotoxin toxicity in vitro and in vivo. *Toxicol Appl Pharmacol.* 2012 Dec 1;265(2):190-9. PMID: 23088858.

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