**WARNING**

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

**WARRANTY AND LIMITATION OF REMEDY**

Buyer agrees to purchase the material subject to Cayman’s Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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**PRODUCT INFORMATION**

**Podophyllotoxin**  
*Item No. 19575*

**CAS Registry No.**: 518-28-5  
**Formal 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  
**Synonyms**: NSC 24818, Podofilox, PPT  
**MF**: C_{22}H_{22}O_{8}  
**FW**: 414.4  
**Purity**: ≥98%  
**Supplied as**: A powder  
**Storage**: -20°C  
**Stability**: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly  
**Special Conditions**: Hygroscopic. Keep under inert gas. Protect from moisture.

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**Laboratory Procedures**

Podophyllotoxin is supplied as a powder. A stock solution may be made by dissolving the podophyllotoxin in the solvent of choice. Podophyllotoxin is soluble in organic solvents such as chloroform, acetone, ethyl acetate, and ethanol.

Podophyllotoxin is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

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**Description**

Podophyllotoxin is a non-alkaloid toxin lignan extracted from the roots and rhizomes of *Podophyllum* species.\(^1,2\) It binds to topoisomerase II during the late S and early G\(_2\) stage, blocking tubulin polymerization and, thus, inhibiting mitosis. In addition to being used as a cathartic, purgative, antiviral agent, vesicant, and anthelmintic, podophyllotoxin is the starting material for the semi-synthesis of the anti-cancer drugs etoposide (Item No. 12092), teniposide (Item No. 14425), and etopophos.\(^1,2\)

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**References**