

# 4'-Demethylepipodophyllotoxin

Catalog No: tcsc1426



## Available Sizes

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

6559-91-7

**Formula:**

$C_{21}H_{20}O_8$

**Pathway:**

Cell Cycle/DNA Damage;Cytoskeleton

**Target:**

Microtubule/Tubulin;Microtubule/Tubulin

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 100 mg/mL (249.76 mM; Need ultrasonic)

**Alternative Names:**

4'-O-demethylepipodophyllotoxin;4'-DMEP

**Observed Molecular Weight:**

400.38

## Product Description

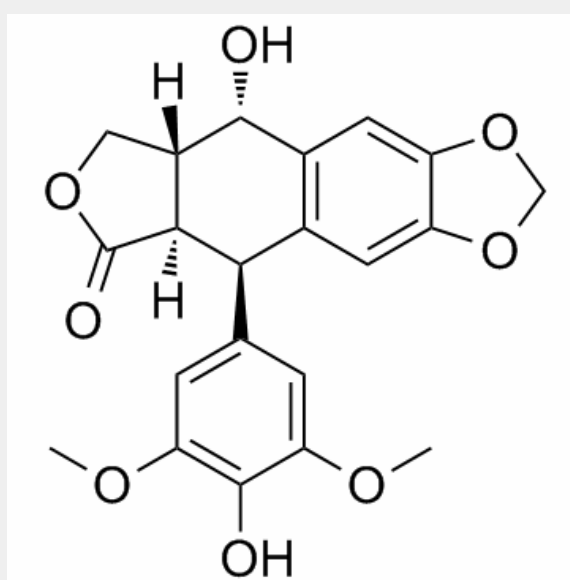
4'-Demethylepipodophyllotoxin(4'-DMEP) is a key intermediate compound for the preparation of podophyllotoxin-type anti-cancer drugs; a potent inhibitor of microtubule assembly.

IC50 Value: 0.31 $\mu$ M(EC50 in HL60 cell, MTT assay, 48h); 0.37 $\mu$ M(EC50 in HepG2 cell, MTT assay, 48h) [1]

Target: microtubule

in vitro: 4-TMP-DMEP showed strong cytotoxicity activity against the above-mentioned five tumor cell lines. The EC50s of 4-TMP-DMEP against these tumor cell lines ranged from 0.24 to 0.11  $\mu$ M, which were 0.29 to 3618 times lower than that of DMEP [1].

in vivo: Treatment of animals with DMEP (until the end of the experiment), 30 min before TPA treatment, significantly reduced the tumor incidence, tumor volume and the conversion efficiency of papillomas to squamous cell carcinomas. The tumor formation and growth was also delayed by DMEP pre-treatment [2].



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