

Picropodophyllin

Catalog No: tcsc1184



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

477-47-4

Formula:

$C_{22}H_{22}O_8$

Pathway:

Protein Tyrosine Kinase/RTK

Target:

IGF-1R

Purity / Grade:

>98%

Solubility:

DMSO : 50 mg/mL (120.65 mM; Need ultrasonic)

Alternative Names:

AXL1717;Picropodophyllin;PPP

Observed Molecular Weight:

414.41

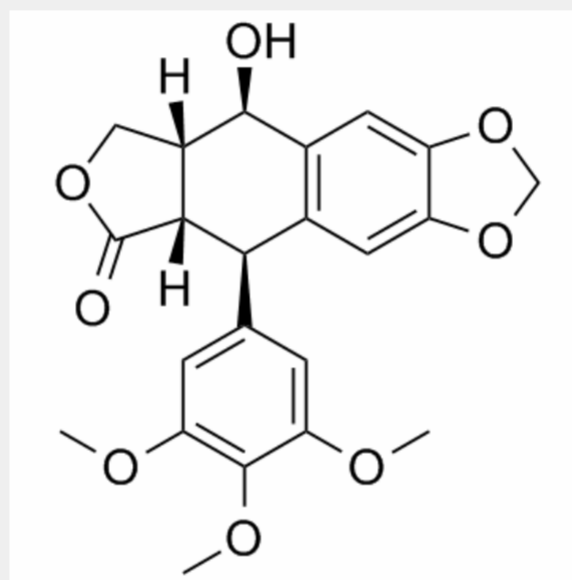
Product Description

Picropodophyllin (AXL1717) is a selective **insulin-like growth factor-1 receptor (IGF-1R)** inhibitor with an **IC₅₀** of 1 nM.

IC50 & Target: IC50: 1 nM (IGF-1R)

In Vitro: Picropodophyllin (AXL1717) (0.5, 2.5, 10 μM) potently inhibits IGF-1-stimulated IGF-1R, Akt (Ser 473) and Erk1/2 phosphorylation in intact cells. Picropodophyllin (AXL1717) also inhibits cell growth, and induces apoptosis in cultured IGF-1R-positive tumor cells^[1]. Picropodophyllin (AXL1717) synergistically sensitizes HMCL, primary human MM and murine 5T33MM cells to ABT-737 and ABT-199 via further decreasing cell viability and enhancing apoptosis^[3]. Picropodophyllin and sorafenib synergistically suppress the proliferation and motility of hepatocellular carcinoma cells^[4].

In Vivo: Picropodophyllin (AXL1717) (20 mg/kg/12 h, i.p.) causes complete tumor regression in SCID mice xenografted with human ES-1, BE, and PC3^[1]. Picropodophyllin (AXL1717) shows a potent antitumor activity, increases survival in the 5T33MM mouse model [2].



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