

(20S) -Protopanaxadiol

Catalog No: tcsc2998



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

30636-90-9

Formula:

$C_{30}H_{52}O_3$

Pathway:

Membrane Transporter/Ion Channel

Target:

P-glycoprotein

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

20-Epiprotopanaxadiol;20(S)-APPD

Observed Molecular Weight:

460.73

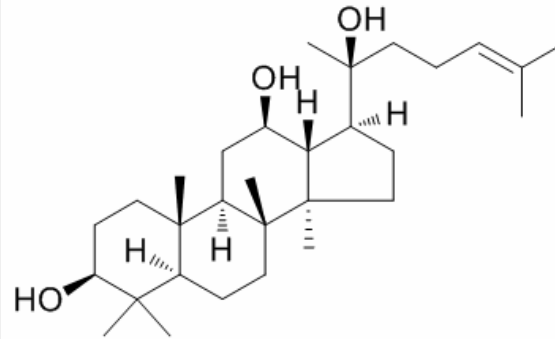
Product Description

(20S)-Protopanaxadiol (20-Epiprotopanaxadiol) is an aglycon metabolic derivative of the protopanaxadiol-type ginseng saponin; apoptosis inducer.

IC50 value:

Target: apoptosis inducer

(20S)-Protopanaxadiol was used to induce cytotoxicity for two human glioma cell lines, SF188 and U87MG. For the SF188 cells, (20S)-Protopanaxadiol activated caspases-3, -8, -7, and -9 within 3 h and induced rapid apoptosis, which could be partially inhibited by a general caspase blocker and completely abolished when the caspase blocker was used in combination with an antioxidant. (20S)-Protopanaxadiol also induced cell death in U87MG cells but did not activate any caspases in these cells [1]. aPPD was able to inhibit P-gp activity as potently as verapamil on MDR cells. The blockage of P-gp activity was highly reversible as wash-out of aPPD resulted in an immediate recovery of P-gp activity. Unlike verapamil, aPPD did not affect ATPase activity of P-gp suggesting a different mechanism of action [2].



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