

Product Name : Silvestrol

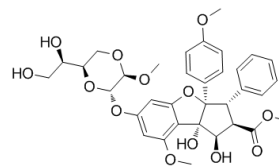
Synonyms : -)-Silvestrol

Cat No. : M15673

CAS Number : 697235-38-4

Molecular Formula : C₃₄H₃₈O₁₃

Formula Weight : 654.67



Chemical Name : 1H-Cyclopenta[b]benzofuran-2-carboxylic acid, 6-[[[(2S,3R,6R)-6-[(1R)-1,2-dihydroxyethyl]-3-methoxy-1,4-dioxan-2-yl]oxy]-2,3,3a,8b-tetrahydro-1,8b-dihydroxy-8-methoxy-3a-(4-methoxyphenyl)-3-phenyl-, methyl ester, (1R,2R,3S,3aR,8bS)-

Description : Silvestrol is a potential anticancer rocaglate derivative from *Aglaia foveolata*, induces apoptosis in cancer cells through the mitochondrial/apoptosome pathway; effectively targets the cyclin/CDK/Rb pathway, and additionally induces cytotoxicity via intrinsic apoptosis, exhibits low nanomolar potency both in MCL cell lines and primary MCL tumor cells; demonstrates B-cell selective activity in chronic lymphocytic leukemia and acute lymphoblastic leukemia in vitro and in vivo.

Pathway : Apoptosis

Target : Apoptosis

Receptor : Apoptosis

Solubility : DMSO; H₂O: < 1 mg/mL

SMILES : O=C([C@H]([C@H]1C2=CC=CC=C2)[C@@H](O)[C@]3(O)[C@@]1(C4=CC=C(OC)C=C4)OC5=C3C(OC)=CC(OC6O[C@@H]([C@H](O)CO)CO[C@H]6OC)=C5)OC

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Lucas DM, et al. Blood. 2009 May 7;113(19):4656-66. | 2. Kim S, et al. Anticancer Res. 2007 Jul-Aug;27(4B):2175-83. | 3. Hwang BY, et al. J Org Chem. 2004 May 14;69(10):3350-8. | 4. Alinari L, et al. Clin Cancer Res. 2012 Sep 1;18(17):4600-11.