

Product Data Sheet

Product Name: Silvestrol aglycone

Cat. No.: GC37638

Chemical Properties

Cas. No. 960365-65-5

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=CC(O)=CC(OC)=C35)OC

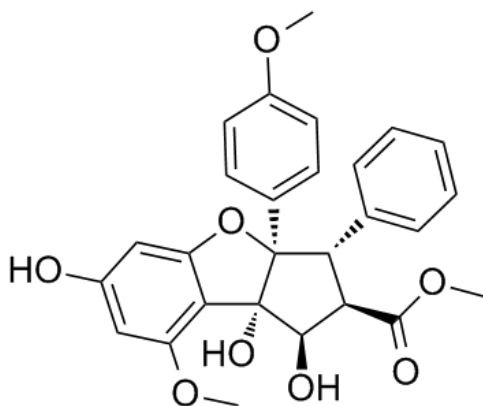
Formula $C_{27}H_{26}O_8$ M.Wt 478.49

Solubility DMSO: ≥ 106 mg/mL (221.53 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Silvestrol aglycone is a Silvestrol analogue, inhibits protein translation initiation in cancer cells, with EC₅₀s of 10 and 200 nM for myc-LUC and tub-LUC luciferase reporter protein translation, respectively. Anti-cancer activity[1].

Silvestrol aglycone (Compound 4) inhibits the proliferation of MDA-MB-231 cells with an E₅₀ of 20 ± 10 nM after 72 h[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Liu T, et al. Synthetic silvestrol analogues as potent and selective protein synthesis inhibitors. J Med Chem. 2012 Oct 25;55(20):8859-78.

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