7Beta-Hydroxycholesterol Inhibitor

PRODUCT OVERVIEW

Product Name	7Beta-Hydroxycholesterol, Inhibitor
Full Product Name	7Beta-Hydroxycholesterol
Form/Format	Solid. Powder
Purity/Purification	98.00%
Preparation and Storage	Store at -20 degree C for 3 years powder -80 degree C for 2 years in solvent
Molecular Weight	402.65
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
Formula	C27H46O2
SMILES	CC(C)CCC[C@@H](C)[C@@H](CC1)[C@@](C)(CC[C@@H]2[C@@](C)(CC[C@@H](C3)O)C3=C3)[C@@H]1[C@@H]2[C@H]3O
CAS Number	566-27-8
Target & IC50	LDL Calcium Channel MAPK
In Vitro	7beta-OHC decreased clonogenic survival of NCI-H460 in a dose dependent pattern. 7beta-OHC induced apoptosis in NCI-H460, with the characteristic features like increase in sub-G(1) hypodiploid (apoptotic) cells, and apoptotic body formation, as evidenced by flow cytometry and fluorescence microscope, respectively. Apoptosis was also associated with loss of mitochondrial transmembrane potential, and the activation of caspases 9 and 3. 7beta-OHC resulted in generation of reactive oxygen species (ROS) during apoptosis[1]
Product Categories/Family for 7Beta-Hydroxycholesterol, inhibitor	Metabolism; LDL; Membrane transporter/Ion channel; MAPK
Related Product Information for 7Beta-Hydroxycholesterol, inhibitor	7beta-Hydroxycholesterol, a major cytotoxin in oxidized LDL, induces Ca(2+) oscillations, MAP kinase activation and apoptosis in human aortic smooth muscle cells.
Product References and Citations for 7Beta-Hydroxycholesterol, inhibitor	Cytotoxic effect of 7beta-hydroxycholesterol on human NCI-H460 lung cancer cells. Biol. Pharm. Bull., 2005, 28(8):1377-80. Cytotoxic effect of 7beta-hydroxycholesterol on human NCI-H460 lung cancer cells. Biol. Pharm. Bull., 2005, 28(8):1377-80. Effects of combinations of 7beta-hydroxycholesterol and anticancer drugs or ionizing radiation on the proliferation of cultured tumor cells. Anticancer Res., 2002, 22(2A):943-8.
Other Notes	Small volumes of 7Beta-Hydroxycholesterol, inhibitor vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for 7Beta-Hydroxycholesterol purchase	MBS5760085 is an inhibitor targeting 7Beta-Hydroxycholesterol.

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