

Product Data Sheet

Product Name: SH-42
Cat. No.: GC49333

Chemical Properties

Cas. No. 2143952-36-5

SMILES C[C@@]12[C@]3([H])C([C@@]4([H])[C@](CC3)([C@]([C@@H](COC=O)C)([H])CC4)C)=CC[C@@]1([H])C[C@H](CC2)OC(C)=O

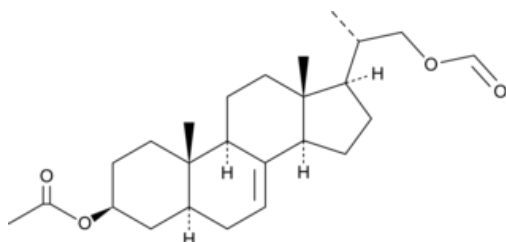
Formula C₂₅H₃₈O₄ M.Wt 402.6

Solubility Chloroform: 10 mg/ml Storage -20°C

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

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

Structure



Background

SH-42 is an inhibitor of δ^{24} -dehydrocholesterol reductase (DHCR24; IC₅₀ = 4.2 nM).¹ It increases serum levels of desmosterol, the immediate precursor of cholesterol in the Bloch pathway, in mice when administered at a dose of 0.5 mg/animal per day. SH-42 increases levels of arachidonic acid and its metabolite prostaglandin E₂, as well as docosahexaenoic acid and its metabolites 19,20-EpDPA and 19,20-DiHDPA, in the peritoneal lavage fluid in a mouse model of peritonitis induced by zymosan A.²

1. Müller, C., Hemmers, S., Bartl, N., et al. New chemotype of selective and potent inhibitors of human delta 24-dehydrocholesterol reductase. *Eur. J. Med. Chem.* 140:305-320 (2017)
2. Körner, A., Zhou, E., Müller, C., et al. Inhibition of δ^{24} -dehydrocholesterol reductase activates pro-resolving lipid mediator biosynthesis and inflammation resolution. *Proc. Natl. Acad. Sci. USA* 116(41):20623-20634 (2019)

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

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