

Product Data Sheet

Product Name: Trihydroxycholestanoic Acid

Cat. No.: GC45945

Chemical Properties

Cas. No. 547-98-8

Chemical Name (5 β)-3 α ,7 α ,12 α -trihydroxy-cholestan-26-oic acid

SMILES CC[C@H](CCCC(C)C(O)=O)[C@@]1([H])CC[C@@]2([H])[C@]3([H])[C@H](O)C[C@]4([H])C[C@H](O)CC[C@]4(C)[C@@]3([H])C[C@H](O)[C@@]21C

Formula C₂₇H₄₆O₅

M.Wt 450.7

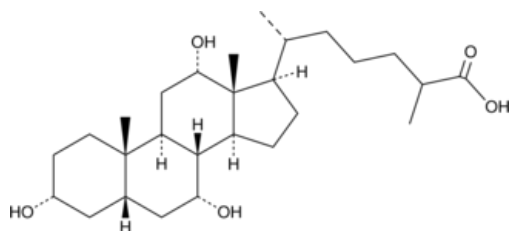
Solubility DMSO : 50 mg/mL (110.95 mM;
Need ultrasonic)

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

Trihydroxycholestanoic acid is an intermediate in the biosynthesis of cholic acid .1 Elevated plasma levels of trihydroxycholestanoic acid have been found in patients with Zellweger syndrome, a neurological disorder characterized by mutations in PEX genes which result in defects in peroxisome formation.2,3

[1. Keane, M.H., Overmars, H., Wikander, T.M., et al. Bile acid treatment alters hepatic disease and bile acid transport in peroxisome-deficient PEX2 Zellweger mice. *Hepatology* 45(4), 982-997 (2007).]2. Ferdinandusse, S., Overmars, H., Denis, S., et al. Plasma analysis of di- and

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

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trihydroxycholestanoic acid diastereoisomers in peroxisomal α -methylacyl-CoA racemase deficiency. J. Lipid Res. 42(1), 137-141 (2001).|3. Klouwer, F.C.C., Berendse, K., Ferdinandusse, S., et al. Zellweger spectrum disorders: Clinical overview and management approach. Orphanet J. Rare Dis. 10, 151 (2015).

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