

Product Data Sheet

Product Name: Cholesterol Phenylacetate

Cat. No.: GD06945

Chemical Properties

Cas. No. 33998-26-4

Formula $C_{35}H_{52}O_2$

M.Wt 504.786

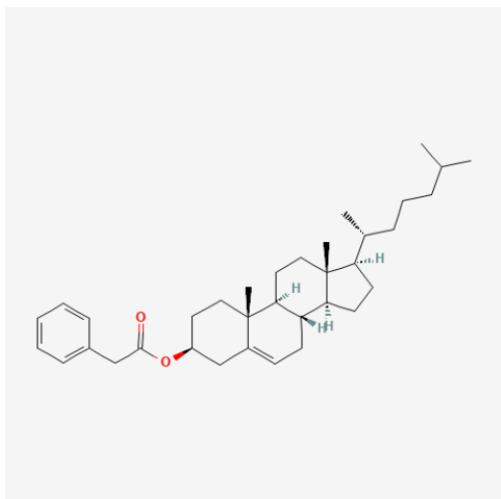
Solubility

Storage Store at RT

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

Cholesterol Phenylacetate is a sterol ester that is characterized by the presence of a double bond in the B ring of the steroid nucleus and an additional double bond on the phenylacetate side chain. Cholesterol phenylacetate was subjected to epoxidation using trans-dioxoruthenium(VI) tetrakis(porphyrin) as a catalyst and air as the source of oxygen. The results showed that

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

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Cholesterol Phenylacetate underwent selective epoxidation at the steroid nucleus, specifically at the 5,6 position. The epoxidation reaction was highly regioselective, yielding predominantly the 5,6 β -epoxide with a yield of 88% within 2 hours^[1].

References:

[1] Tavares M, Ramasseul R, Marchon J C. Regioselective epoxidation by air of sterol esters bearing several double bonds using a ruthenium porphyrin catalyst. *Catalysis Letters* 4 (1990) 163-168.

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