# PRODUCT INFORMATION



## 3β-hydroxy-5-Cholestenoic Acid

Item No. 21859

CAS Registry No.: 6561-58-6

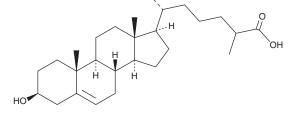
(3β)-3-hydroxy-cholest-5-Formal Name:

en-26-oic acid

Synonyms: 3β-hydroxy-5-CA,

Cholesterol-26-carboxylic Acid

MF:  $C_{27}H_{44}O_3$ FW: 416.6 **Purity:** ≥95% Supplied as: A solid Storage: -20°C Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

#### **Laboratory Procedures**

3\(\beta\)-hydroxy-5-Cholestenoic acid is supplied as a solid. A stock solution may be made by dissolving the 3β-hydroxy-5-cholestenoic acid in the solvent of choice, which should be purged with an inert gas. 3β-hydroxy-5-Cholestenoic acid is soluble in DMSO.

#### Description

3β-hydroxy-5-Cholestenoic acid is an active metabolite of cholesterol formed when cholesterol is metabolized by the cytochrome P450 (CYP) isomer CYP27A1.<sup>1</sup> 3β-hydroxy-5-Cholestenoic acid is a modulator of  $\gamma$ -secretase that decreases amyloid  $\beta$  (1-42) peptide (A $\beta$ 42; EC $_{50}$  = 250 nM) and increases Aβ38 levels with no effect on total Aβ in CHO2B7 cells. It decreases endogenous murine Aβ42 production by 60 and 75% in mouse postnatal neuron-glia cultures at concentrations of 3 and 10 μM, respectively.

#### Reference

1. Jung, J.I., Price, A.R., Ladd, T.B., et al. Cholestenoic acid, an endogenous cholesterol metabolite, is a potent γ-secretase modulator. Mol. Neurodegener. 10(29), (2015).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

## WARRANTY AND LIMITATION OF REMEDY

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