

Product Data Sheet

Product Name: 4 β -Hydroxycholesterol-d4

Cat. No.: GC70557

Chemical Properties

Cas. No. 1363529-44-5

Formula C₂₇H₄₂D₄O₂ M.Wt 406.68

Solubility DMSO : 5 mg/mL (12.29 mM); ultrasonic and warming and heat to 60°C; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

Storage -20°C, protect from light

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.

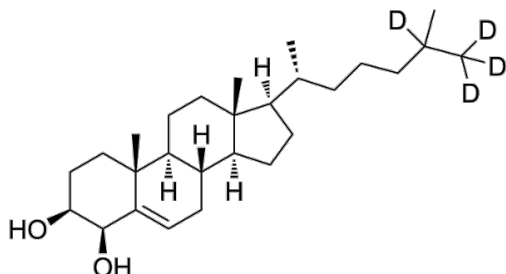
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

4β-Hydroxycholesterol-d4 is the deuterium labeled 4β-Hydroxycholesterol. 4β-hydroxy Cholesterol is a major oxysterol cholesterol metabolite and a precursor in the synthesis of bile acids that is found in human circulation[1][2].

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Granchi C, Rizzolio F, Bordoni V, Caligiuri I, Manera C, Macchia M, Minutolo F, Martinelli A, Giordano A, Tuccinardi T. 4-Arylidene-2-methyloxazol-5(4H)-one as a new scaffold for selective reversible MAGL inhibitors. J Enzyme Inhib Med Chem. 2016;31(1):137

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