

25-Hydroxycholesterol, Cholesterol metabolite

Catalog	Unit
TBI4539-5MG	5 mg
TBI4539-25MG	25 mg

Product Details

Formal Name: 5-Cholesten-3 β , 25-diol

Molecular Formula: C₂₇H₄₆O₂

Formula Weight: 402.66

CAS Number: 2140-46-7

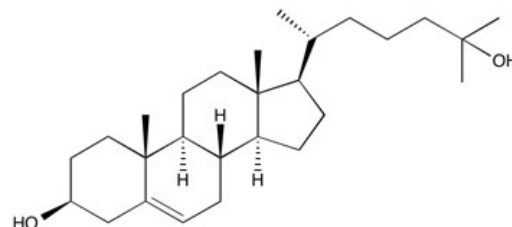
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO or in Ethanol.

Storage: -20°C

Stability: \geq 1 year.



Applications

Cholesterol metabolite

Functions

Metabolite resulting from the action of cholesterol 25-hydroxylase on cholesterol. However, since cholesterol 25-hydroxylase knock-out mice still have significant levels of 25-hydroxycholesterol there must be alternate pathways of generation that have yet to be determined. Likewise, the biological role of 25-hydroxycholesterol remains somewhat unclear. 25-Hydroxycholesterol is frequently mentioned as an important regulator of cholesterol metabolism, but apparently normal cholesterol regulation in organisms with both high and low levels of the compound make this association unclear. More recent reports have linked 25-hydroxycholesterol and one of its metabolites to immunoregulatory roles, but more information is needed before it's clear if that is indeed a primary role for the compound.

Application Procedures

First dissolved in DMSO or in Ethanol, then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

For research use only.