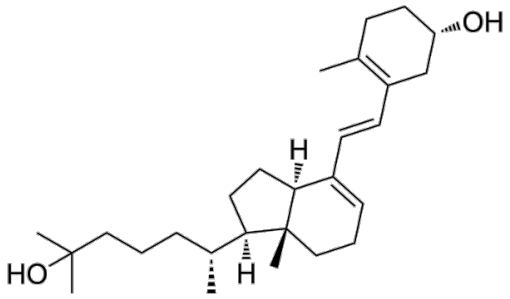
Product Data Sheet

Product Name: 25-Hydroxytachysterol3
Cat. No.: GC74164

Chemical Properties

Cas. No.	39932-44-0		
Formula	$C_{27}H_{44}O_2$	M.Wt	400.64
Solubility		Storage	-20°C, protect from light, stored under nitrogen
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

25-droxytacsterol3 is the metabolite of Vitamin D3 . 25-droxytacsterol3 inhibits the proliferation of

epidermal keratinocytes and dermal fibroblasts, stimulates the expression of differentiation- and antioxidant-related genes in keratinocytes. 25-droxytacsterol3 activates vitamin D receptor (VDR) and aryl drocarbon receptor (AhR), liver X receptor α/β (LXR α/β) and peroxisome proliferator-activated receptor γ (PPARγ), stimulates the expression of CYP24A1.

References:

[1]. Slominski AT, et al., Metabolic activation of tacsterol3 to biologically active droxyderivatives that act on VDR, AhR, LXRs, and PPARγ receptors. FASEB J. 2022 Aug;36(8):e22451.