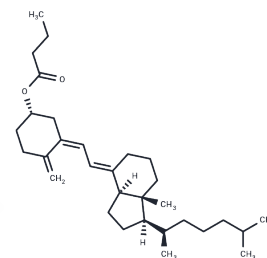


Butyrate-Vitamin D3

Chemical Properties

CAS No. :	31316-20-8
Formula:	C31H50O2
Molecular Weight:	454.73
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Butyrate-Vitamin D3 is a butyrate-modified derivative of vitamin D3 (cholecalciferol), in which one hydroxyl group in the vitamin D3 molecule is replaced by a butyrate group. Butyrate-Vitamin D3 influences gene expression and cellular function and exhibits anti-inflammatory activity. Butyrate-Vitamin D3 can be used in research on immunomodulation, metabolic diseases, and cancer.
Targets(IC50)	Vitamin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1991 mL	10.9955 mL	21.9911 mL
5 mM	0.4398 mL	2.1991 mL	4.3982 mL
10 mM	0.2199 mL	1.0996 mL	2.1991 mL
50 mM	0.044 mL	0.2199 mL	0.4398 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Xie S, et al. Lipid metabolism and plasma metabolomics of juvenile largemouth bass *Micropterus salmoides* were affected by dietary oxidized fish oil[J]. *Aquaculture*, 2020, 522: 735158.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481