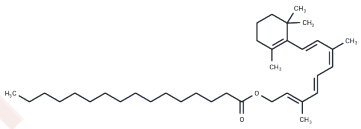
Data Sheet (Cat.No.T40424)

TargetMol

9-cis-Vitamin A palmitate

Chemical Properties



CAS No. : 34356-29-1

Formula: C36H60O2

Molecular Weight: 524.874

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	9-cis-Vitamin A palmitate (9-cis-Retinyl palmitate) is a 9-cis isomer derived from the interaction of vitamin A palmitate in corn flakes, exhibiting 26% of the biological activity of the all-trans-vitamin A palmitate, the most biologically active form of vitamin A.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	Of the total vitamin A palmitate content, 94% is all-trans, 5% is 13-cis, and less than 1% is 9-cis[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9052 mL	9.5262 mL	19.0523 mL
5 mM	0.381 mL	1.9052 mL	3.8105 mL
10 mM	0.1905 mL	0.9526 mL	1.9052 mL
50 mM	0.0381 mL	0.1905 mL	0.381 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

Y.-S. Kim, et al. Degradation of Vitamin A Palmitate in Corn Flakes During Storage. Journal of Food Science. Volume65, Issue7. October 2000.

GuangwenTang, et al. Formation of all-trans-retinoic acid and 13-cis-retinoic acid from all-trans-retinyl palmitate in humans. The Journal of Nutritional Biochemistry. Volume 2, Issue 4, April 1991, Pages 210-213.

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