

11-cis Retinal

Chemical Properties

CAS No. : 564-87-4

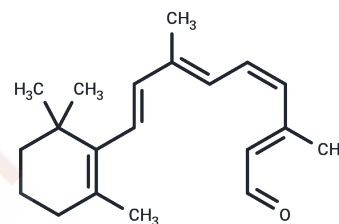
Formula: C₂₀H₂₈O

Molecular Weight: 284.443

Storage: Keep away from direct sunlight, Store at low temperature

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	11-cis Retinal is a chromophore that binds to opsin in the mammalian visual system as an inverse agonist forming the inactive conformation of rhodopsin. When 11-cis retinal absorbs a photon of light, it isomerizes to form all-trans retinal beginning the phototransduction cycle, which is the basis for mammalian vision. A G121L mutation in opsin allows 11-cis retinal to bind as a partial agonist and activate rhodopsin in the absence of light. In a moth model of carotenoid deficiency-induced low visual sensitivity, 11-cis retinal application to compound eyes restored visual sensitivity almost completely.
Targets(IC50)	Others, Endogenous Metabolite

Solubility Information

Solubility	Chloroform: Slightly Soluble Methanol: Slightly Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5157 mL	17.5784 mL	35.1568 mL
5 mM	0.7031 mL	3.5157 mL	7.0314 mL
10 mM	0.3516 mL	1.7578 mL	3.5157 mL
50 mM	0.0703 mL	0.3516 mL	0.7031 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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