

Lutein

Chemical Properties

CAS No. : 127-40-2

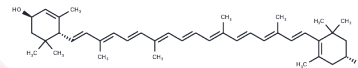
Formula: C₄₀H₅₆O₂

Molecular Weight: 568.87

Keep away from direct sunlight, Store at low temperature, Keep away from moisture

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	1. Lutein (Xantofyl) has antitumour action. 2. Lutein has antimutagenic action. 3. Lutein has a wide range of antimicrobial action. 4. Lutein is potentially useful for treating macular degeneration.
Targets(IC50)	Apoptosis, Reactive Oxygen Species, Endogenous Metabolite, Antibacterial, ROS

Solubility Information

Solubility	DMSO: 10.5 mg/mL (18.46 mM), Sonication is recommended. H ₂ O: Insoluble, Ethanol: 10 mg/mL (17.58 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7579 mL	8.7894 mL	17.5787 mL
5 mM	0.3516 mL	1.7579 mL	3.5157 mL
10 mM	0.1758 mL	0.8789 mL	1.7579 mL
50 mM	0.0352 mL	0.1758 mL	0.3516 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

Bunger M , Quataert M , Kamps L , et al. Bioavailability of lutein from a lutein-enriched egg-yolk beverage and its dried re-suspended versions[J]. International Journal of Food Sciences and Nutrition, 2014, 65(7):903-909.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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