

β -Carotene

Chemical Properties

CAS No. : 7235-40-7

Formula: C₄₀H₅₆

Molecular Weight: 536.87

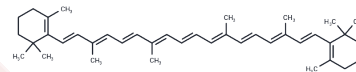
Appearance: no data available

Storage:

keep away from direct sunlight,store under nitrogen,

store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	β -Carotene (Provitamin A) is a naturally-occurring retinol (vitamin A) precursor obtained from certain fruits and vegetables with potential antineoplastic and chemopreventive activities. As an anti-oxidant, beta carotene inhibits free-radical damage to DNA.
Targets(IC50)	Apoptosis,Endogenous Metabolite,ROS

Solubility Information

Solubility	DMSO: 60 mg/mL (111.76 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	1.8626 mL	9.3132 mL	18.6265 mL
5 mM	0.3725 mL	1.8626 mL	3.7253 mL
10 mM	0.1863 mL	0.9313 mL	1.8626 mL
50 mM	0.0373 mL	0.1863 mL	0.3725 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.

Reference

Kasperczyk S, et al. Toxicol Appl Pharmacol. 2014 Oct 1;280(1):36-41.

Bi G, Liang J, Shan G, et al.Retinol saturase mediates retinoid metabolism to impair a ferroptosis defense system in cancer cells.Cancer Research.2023: CAN-22-3977.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286

E_mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481