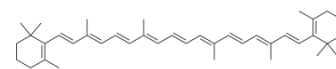


β-Carotene

Cat. No.:	HY-N0411
CAS No.:	7235-40-7
Molecular Formula:	C ₄₀ H ₅₆
Molecular Weight:	536.87
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5.5 mg/mL (10.24 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

β-Carotene (Provitamin A) is an organic compound and classified as a terpenoid. It is a precursor (inactive form) of vitamin A.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

- [1]. Tanumihardjo, S.A., Factors influencing the conversion of carotenoids to retinol: bioavailability to bioconversion to bioefficacy. *Int J Vitam Nutr Res*, 2002. 72(1): p. 40-5.
- [2]. Leo, M.A. and C.S. Lieber, Alcohol, vitamin A, and beta-carotene: adverse interactions, including hepatotoxicity and carcinogenicity. *Am J Clin Nutr*, 1999. 69(6): p. 1071-85.

Caution: Product has not been fully validated for medical applications. For research use only.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com