



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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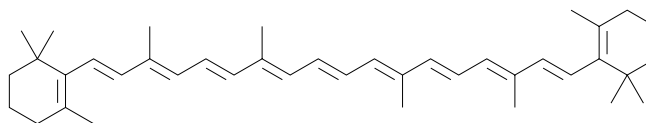
# Product Information



## β-Carotene

Item No. 16837

**CAS Registry No.:** 7235-40-7  
**Formal Name:** β,β-carotene  
**Synonyms:** Food Orange 5, KPMK, Lucarotin, NSC 62794, Provatene, Provitamin A, Solatene  
**MF:** C<sub>40</sub>H<sub>56</sub>  
**FW:** 536.9  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 278, 341, 446 nm



### Laboratory Procedures

For long term storage, we suggest that β-carotene be stored as supplied at -20°C. It should be stable for at least two years.

β-Carotene is supplied as a crystalline solid. A stock solution may be made by dissolving the β-carotene in the solvent of choice. β-Carotene is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of β-carotene in these solvents is approximately 1 and 0.14 mg/ml, respectively.

β-Carotene is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, β-carotene should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. β-Carotene has a solubility of approximately 0.1 mg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

β-Carotene is a red/orange-colored fat-soluble terpenoid with antioxidant properties.<sup>1</sup> It can be enzymatically cleaved to produce vitamin A and retinoic acid. Vitamin A is important for vision and bone growth, while retinoic acid, through the retinoic acid receptor, plays an important role in cell differentiation.

### Reference

1. Negishi, H., Ueda, Y., and Azuma, M. Antioxidant fat-soluble vitamins and lipid peroxides in serum. *J. Clin. Biochem. Nutr.* **26**, 227-234 (1999).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/16837](http://www.caymanchem.com/catalog/16837)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

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