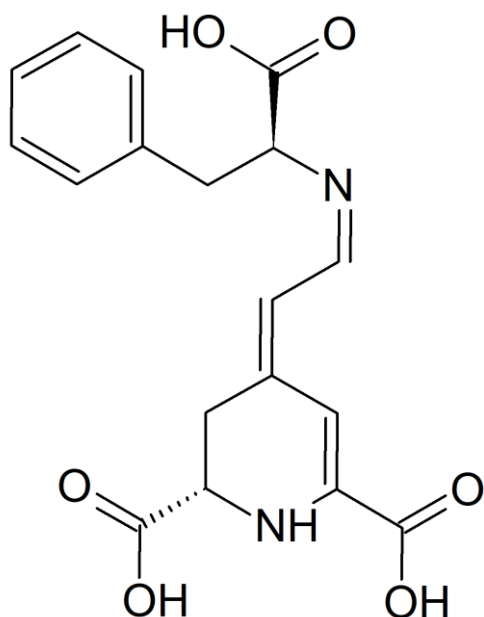


Product Phenylalanine-betaxanthin #2005



Product Description

Phenylalanine-betaxanthin standard stabilized with 50 μ M sodium ascorbate, solubilized in water stored in an amber vial, purity >98 % by HPLC analysis. Only for research use.

Catalogue Number: #2005

Chemical Name: Phenylalanine-betaxanthin

CAS Number: Not available

PubChem CID: 101720918

Synonyms

-(2S,4E)-4-[(2Z)-2-[[[(1S)-1-carboxy-2-phenylethyl]imino]ethylidene]-2,3-dihydro-1H-pyridine-2,6-dicarboxylic acid

Molecular Formula: C₁₈H₁₈N₂O₆

Smiles: [H][C@]1(C\C(=C/C=N\[C@@H](CC2=CC=CC=C2)C(O)=O)C=C(N1)C(O)=O)C(O)=O

Appearance: yellow to dark orange liquid

Molecular Weight: 358.35 g/mol

Purity: >98 %

Solubility: DMSO, Water

Storage: -20 °C

Molar absorption coefficient at 480 nm: 49000 (M cm)⁻¹ (PMID: **18578538**)

Category: Standards; Dyes; phytochemicals, Pharmaceutical, Metabolites

Main sources: Is a minoritarian betaxanthin from Caryophyllales plants such yellow-orange prickly pears (*Opuntia sp*), dragon fruits (*Hylocereus polyrhizus*) and Swiss Chard (*Beta vulgaris ssp Cicla*)

Applications:

References: PMID: **32707947**, Antitumoral Drug Potential of Tryptophan-Betaxanthin and Related Plant Betalains in the *Caenorhabditis elegans* Tumoral Model.

PMID: **32535316**, Betalain health-promoting effects after ingestion in *Caenorhabditis elegans* are mediated by DAF-16/FOXO and SKN-1/Nrf2 transcription factors.

Quantity	Format	Price
1 mg	100 µL HPLC amber vial	850 €
2.5 mg	250 µL HPLC amber vial	1595 €
5 mg	500 µL HPLC amber vial	2995 €
10 mg	1 mL HPLC amber vial	5750 €