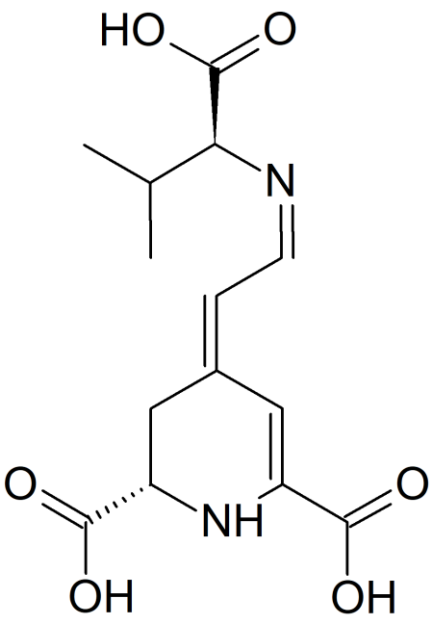
Product Valine-betaxanthin #2010



Product Description

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

Catalogue Number: #2010

Chemical Name: Valine-betaxanthin

CAS Number: Not available

PubChem CID:

Synonyms

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

-Valine-betaxanthin

Molecular Formula: $C_{14}H_{18}N_2O_6$

Smiles: CC(C)[C@H](\N=C/C=C1\C[C@H](NC(=C1)C(O)=O)C(O)=O)C(O)=O

Appearance: yellow to dark orange liquid

Molecular Weight: 310.3 g/mol

Purity: >98 %

Solubility: DMSO, Water

Storage: -20 ºC

Molar absorption coefficient at 480 nm: 50000 $(M\ cm)^{-1}$ (PMID **18578538**)

Category: Standards; Dyes; phytochemicals, Pharmaceutical, Metabolites

Main sources: Is a minoritarian betaxanthin from Caryophyllales plants such beetroot (*Beta vulgaris* ssp *Vulgaris*) and Swiss Chard (*Beta vulgaris* ssp *Cicla*)

Applications:

References: PMID: **17708433**, Studies on Betaxanthin Profiles of Vegetables and Fruits from the Chenopodiaceae and Cactaceae

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 €