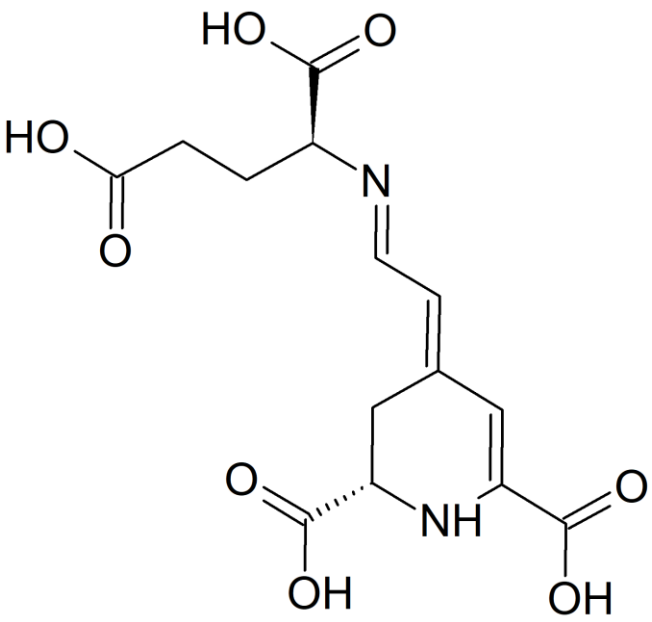
Product Vulgaxanthin II #2003



Product Description

Vulgaxanthin II 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: #2003

Chemical Name: Vulgaxanthin II

CAS Number: 1047-87-6

PubChem CID: 135438600

Synonyms

-(2S,4E)-4-[2-[(1S)-1,3-dicarboxypropyl]iminoethylidene]-2,3-dihydro-1H-pyridine-2,6-dicarboxylic acid

-Glutamic acid-betaxanthin

Molecular Formula: $C_{14}H_{16}N_2O_8$

Smiles: C1C(NC(=CC1=CC=NC(CCC(=O)O)C(=O)O)C(=O)O)C(=O)O

Appearance: yellow to dark orange liquid

Molecular Weight: 340.28 g/mol

Purity: >98 %

Solubility: DMSO, Water

Storage: -20 ºC

Molar absorption coefficient at 480 nm: 48000 $(M\ cm)^{-1}$ (PMID: **18578538**)

Category: Standards; Dyes; phytochemicals, Pharmaceutical, Metabolites

Main sources: Caryophyllales plants such *Beta vulgaris spp vulgaris and spp cicla*

Applications: Vulgaxanthin I is the main pigment in red and golden beetroots *Beta vulgaris spp vulgaris*

References: PMID: **15805475**, Betaxanthins as substrates for tyrosinase. An approach to the role of tyrosinase in the biosynthetic pathway of betalains.

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 €