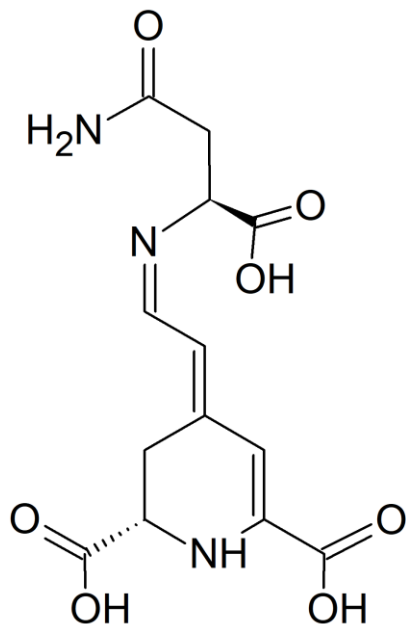


## Product Vulgaxanthin III #2008



### Product Description

Vulgaxanthin III standard stabilized with 50  $\mu$ M sodium ascorbate, solubilized in water stored in an amber vial, purity >98 % by HPLC analysis. Only for research use.

**Catalogue Number:** #2008

**Chemical Name:** Asparagine-betaxanthin

**CAS Number:** Not available

**PubChem CID:** 157010324

### Synonyms

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

-Asparagine-betaxanthin

-Vulgaxanthin III

**Molecular Formula:** C<sub>13</sub>H<sub>15</sub>N<sub>3</sub>O<sub>7</sub>

**Smiles:** C1C(NC(=CC1=CC=NC(CC(=O)N)C(=O)O)C(=O)O)C(=O)O

**Appearance:** yellow to dark orange liquid

**Molecular Weight:** 325.27 g/mol

**Purity:** >98 %

**Solubility:** DMSO, Water

**Storage:** -20 °C

**Molar absorption coefficient at 480 nm:** 51000 (M cm)<sup>-1</sup> (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: **32666336**, Identification of New Betalains in Separated Betacyanin and Betaxanthin Fractions from Ulluco (*Ullucus tuberosus* Caldas) by HPLC-DAD-ESI-MS

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 €