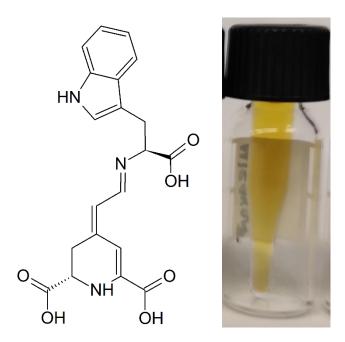
Product Tryptophan-betaxanthin #2007



Product Description

Tryptophan-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: #2007

Chemical Name: Tryptophan-betaxanthin

CAS Number: Not available

PubChem CID: 136728070

Synonyms

-(2S,4Z)-4-[2-[(1S)-1-carboxy-2-(1H-indol-3-yl)ethyl]iminoethylidene]-2,3-dihydro-1H-pyridine-2,6-dicarboxylic acid

-Tryptophan-betaxanthin

Molecular Formula: C₂₀H₁₉N₃O₆

Smiles: C1C(NC(=CC1=CC=NC(CC2=CNC3=CC=CC=C32)C(=O)O)C(=O)O)C(=O)O

Appearance: yellow to dark orange liquid

Molecular Weight: 397.4 g/mol

Purity: >98 %

Solubility: DMSO, Water

Storage: -20 °C

Molar absorption coefficient at 480 nm: 42000 (M cm)⁻¹ (obtained by Betaelegans)

Category: Standards; Dyes; phytochemicals, Pharmaceutical, Metabolites

Main sources: Is a minoritarian betaxanthin from Caryophyllales plants such yellow-orange prickly pears (*Opuntia sp*), *Celosia argentea* var *plumosa* and Swiss Chard (*Beta vulgaris* ssp *Cicla*)

Applications: Tryptophan-betaxanthin has been studied *in silico* as a potential Sirt1 (PMID **23075283**) and PPAR1 antagonist (PMID **22731403**).

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 €