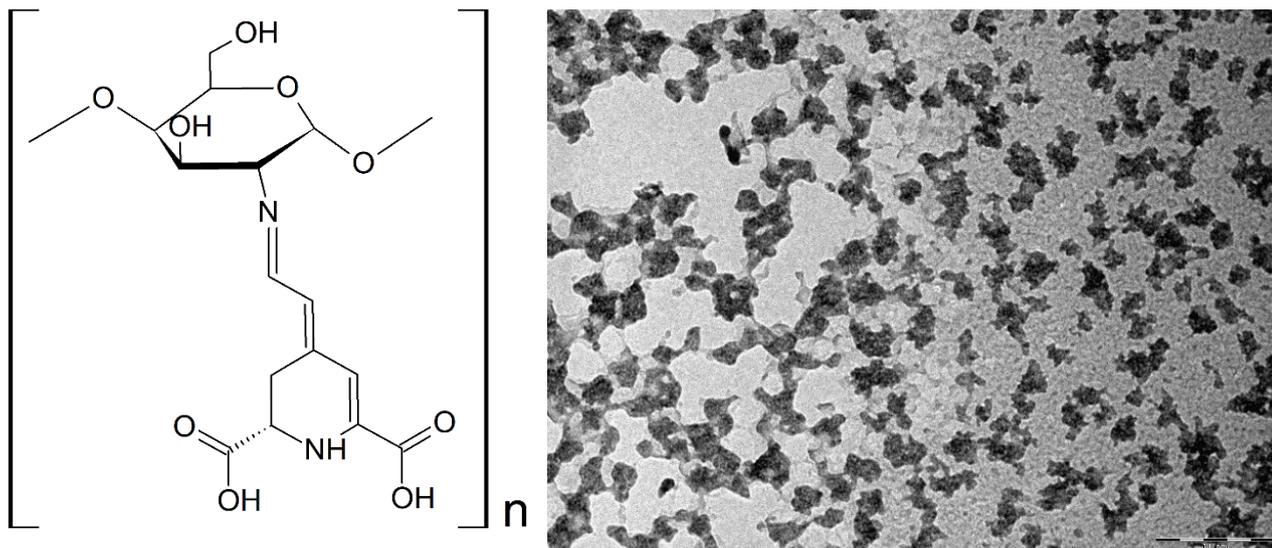


Product Chitosan-betaxanthin #3000



Product Description

Fluorescent biopolymer, which contains a chitosan backbone functionalized with betalamic acid motifs. Only for research use.

Catalogue Number: #3000

Chemical Name: Chitosan-betaxanthin

CAS Number: Not available

PubChem CID: Not available

Synonyms

-Chitosan-betaxanthin

Molecular Formula: $C_{17}H_{24}N_2O_9$

Smiles: CO[C@@H]1OC(CO)[C@H](OC)C(O)C1/N=C\C=C1\C=C(NC(C1)C(=O)O)C(=O)O

Appearance: yellow to dark orange flakes

Molecular Weight: estimated 255 kDa (obtained by size exclusion chromatography)

Purity: 98 %

Solubility: slightly soluble in 1 % dimethylformamide (DMF)

Storage: -20 °C

Molar absorption coefficient at 480 nm: Not available

Category: Material science; Fluorescent dyes; biopolymers, nanomaterials

Main sources: Synthetic polymeric betaxanthin

Applications: Polymeric material that combines the properties of chitosan with those of the plant pigments betalains. Highly fluorescent material that forms small nanoparticles with an average hydrodynamic radius of 84.7 nm in DMF solution

References: PMID: **33183600**, Biosynthesis of a novel polymeric chitosan-betaxanthin and characterization of the first sugar-derived betalains and their effects in the *in vivo* model *Caenorhabditis elegans*.

Quantity	Format	Price
5 mg	HPLC amber vial	
10 mg	HPLC amber vial	