

## CrtX Protein, Pantoea ananas, Recombinant (E. coli, His & Myc)

### General Information

Synonyms: ugt101; Zeaxanthin glucosyltransferase; crtX

Protein Construction: 1-431 aa

Species: Pantoea ananas

Expression Host: E. coli

Accession: P21686

Molecular Weight: 54.7 kDa (predicted)

AA Sequence:

MSHFAAIAPPFYSHVRALQNLAQELVARGHRVTFIQQYDIKHLIDSETIGFHVSGTDSHPPGALTRVLHLAAHP  
LGPSMLKLINEMARTTDMLCRELPQAFNDLAVDGVIVDQMEPAGALVAEALGLPFISVACALPLNREPDMP  
AVMPFEYGTSDAARERYAASEKIYDWLMRRHDRVIAEHSRMLAPRQKLHQCFSPLAQISQLVPELDFPRK  
ALPACFHAVGPLRETHAPSTSSRYFTSSEKPRIFASLGLTQGHRYGLFKTIVKACEEIDGQLLAHCGRLTDSQ  
CEELARSRHTQVVDFADQSAALSQAQLAITHGGMNTVLDAINRYRTPLLALPLAFDQPGVASRIVYHGIGKRAS  
RFTTSHALARQMRSLLTNVDFQQRMAKIQTALRLAGGTMAAADIIIEQVMCTGQPVLSGSGYATAL

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Catalyzes the glycosylation reaction which converts zeaxanthin to zeaxanthin bis(beta-D-glucoside). The reaction proceeds in two steps with the monoglucoside as an intermediate.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481