

# Human TGM3/Transglutaminase 3 (His Tag) recombinant protein



Catalog Number: 502649

## General Information

### Gene Name Synonym

Transglutaminase E; Transglutaminase-3; Protein-glutamine gamma-glutamyltransferase E 50 kDa catalytic chain; Protein-glutamine gamma-glutamyltransferase E 27 kDa non-catalytic chain

### Protein Construction

A DNA sequence encoding the human TGM3 (Q08188) (Ala 2-Glu 693) was expressed, with a polyhistidine tag at the N-terminus.

### Organism

Human

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

Measured by its ability to cleave a synthetic peptide Benzyloxycarbonyl-Gln-Gly and NH<sub>2</sub>OH. The specific activity is > 450 pmoles/min/μg.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

His

### Molecular Mass

The recombinant human TGM3 consists of 710 amino acids and predicts a molecular mass of 78.8 kDa. It migrates as an approximately 70 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.5, 10% gly

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

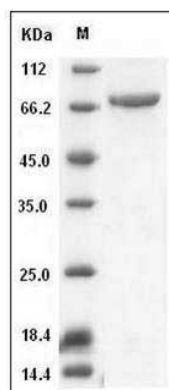
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human TGM3 / Transglutaminase 3 Protein (His Tag) SDS-PAGE