

Human TGM3/Transglutaminase 3 Protein

Cat. No. TGM-HB103

Description

Source	Recombinant Human TGM3/Transglutaminase 3 Protein is expressed from Baculovirus-Insect Cells with His tag at the N-terminus. It contains Ala2-Glu693.
Accession	Q08188
Molecular Weight	The protein has a predicted MW of 78.23 kDa same as Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

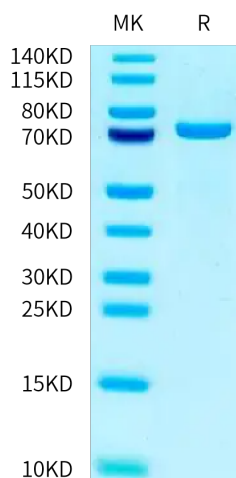
Formulation	Supplied as 0.22 µm filtered solution in 20mM Tris, 500mM NaCl, 10% Glycerol (pH 8.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

TGM3, encoded by the TGM3 gene, is widely expressed in the small intestine, brain, skin and mucosa. In the skin and mucosa, TGM3 is predominantly expressed in the suprabasal layers of the stratified squamous epithelium. It has been demonstrated that TGM3 is essential for epidermal terminal differentiation and formation of the cornified cell envelope through cross-linking structural proteins such as involucrin, loricrin and small proline-rich proteins.

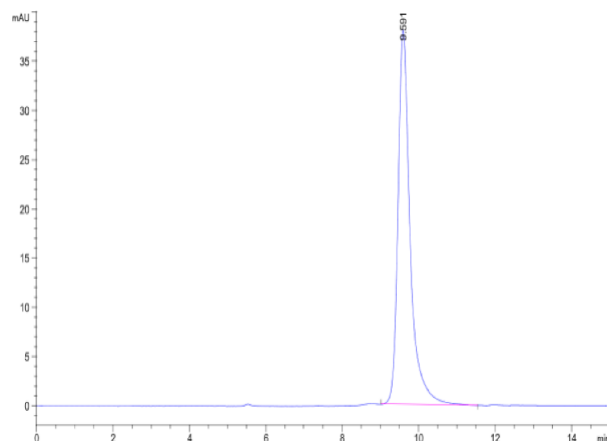
Assay Data

Tris-Bis PAGE



Human TGM3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human TGM3 is greater than 95% as determined by SEC-HPLC.

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Assay Data

Bioactivity Data

Measured by its ability to cleave a synthetic peptide Benzvloxycarbonvl-Gln-Glvand NH₂OH. The specific activity is > 450 pmol/min/ug, as measured under the described conditions.