

Active Recombinant Human transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase) Protein, His-tagged

Cat. No. TGM2-628H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human TGM2 Protein (2-687aa) with His tag was expressed in Insect cells.
Species	Human
Source	Insect cells
ProteinLength	2-687aa
Description	Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. The protein encoded by this gene acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease. Two transcript variants encoding different isoforms have been found for this gene.
Tag	His
Bio-activity	Measured by its ability to cleave a synthetic peptide Benzyloxycarbonyl Gln Gly and NH ₂ OH. The specific activity is > 1000 pmol/min/μg
Molecular Mass	78 kDa

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Endotoxin	< 1 EU/μg by LAL.
Purity	> 95 % by SDS-PAGE
Stability	6 months from date of receipt, -80 centigrade as supplied. 3 months, -80 centigrade under sterile conditions after opening
Storage	Store it under sterile conditions at -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.5 mg/mL
Storage Buffer	Supplied as a 0.2 μm filtered solution in 50 mM Tris, pH 7.5, 150 mM NaCl, 0.25mM DTT, and 10 % glycerol.

GENE INFORMATION

Gene Name	TGM2 transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase) [Homo sapiens (human)]
Official Symbol	TGM2
Synonyms	TGM2; transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase); protein-glutamine gamma-glutamyltransferase 2; TGC; TG(C); TGase C; TGase H; TGase-2; TGase-H; C polypeptide; transglutaminase C; transglutaminase H; transglutaminase-2; tissue transglutaminase; protein-glutamine-gamma-glutamyltransferase; TG2; GNAH; G-ALPHA-h
Gene ID	7052
mRNA Refseq	NM_004613

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Protein Refseq	NP_004604
MIM	190196
UniProt ID	P21980

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