Recombinant Human Inhibited TGM2 Protein

Cat. No. TGM2-053H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human tissue transglutaminase is recombinantly produced in insect cells, and conjugated with a specific inhibitor in order to stabilize the open conformation. Thereby new epitopes become accessible. Inhibited human tissue transglutaminase, stabilized in its open conformation, recombinantly produced in insect cells
Species	Human
Source	Insect cells
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.
Form	Liquid, The Open tTGTM is supplied in 20 mM Tris-HCl pH 7.2, 150 mM NaCl, 1 mM EDTA, 1 mM DTT, 10% Glycerol
Molecular Mass	78 kDa (Val224-allele)
Purity	> 95% by SDS-PAGE under reducing conditions
Applications	May be used for immunoprecipitation and detection of autoantibodies in body fluid

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	samples from patients suffering from autoimmune diseases like psoriasis or gluten sensitive enteropathy. For coating of micro titer plates the addition of 10 mM Ca2+ is recommended.
Storage	Upon receipt, store immediately at -80 centigrade. Stability is given for at least 10 years when stored at -80 centigrade, with potential to date extend after retesting. If storage at -80 centigrade is not possible, storage at ≤ -20 centigrade is recommended. While no formal stability data are available at -20 centigrade, according to our overall experience stability is still given. Store undiluted working aliquots preferably at -80 centigrade (if not possible at ≤ -20 centigrade). Storage of diluted aliquots may result in severe activity loss. Avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	TGM2 transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase) [Homo sapiens]
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
Protein Refseq	NP_004604

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MIM	190196
UniProt ID	P21980

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