Recombinant Human TGM2, His-tagged

Cat. No. TGM2-9173H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TGM2 protein, fused to His-tag, was expressed in E. coli and purified by His-tag affinity chromatography , Superdex-200, RT-HPLC.
Species	Human
Source	E.coli
ProteinLength	1-687 amino acids
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. 1×PBS
Molecular Mass	77.3KDa
Purity	>99% as determined by RT-HPLC
Storage	Can be stored at 4℃ for short term (1-2 weeks). For long term storage, store at -20℃ or -70℃

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Concentration	0.35mg/ml

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
MIM	190196
UniProt ID	P21980
Chromosome Location	20q12
Pathway	Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Thromboxane A2 receptor signaling, organism-specific biosystem;

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Function	GTP binding; metal ion binding; protein binding; protein domain specific binding; protein-glutamine gamma-glutamyltransferase activity; transferase activity, transferring acyl groups;

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