

Recombinant Human TGM2, His-tagged

Cat. No. TGM2-30353TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human Transglutaminase 2 produced in SF9 with 6x His-tag, 78,018 Dalton.
Species	Human
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.
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 320mM Sodium chloride, 16mM HEPES, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

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Sequence Similarities	Belongs to the transglutaminase superfamily. Transglutaminase family.
Full Length	Full L.
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;
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;
Function	GTP binding; metal ion binding; protein binding; protein domain specific binding;

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protein-glutamine gamma-glutamyltransferase activity;

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