Recombinant Human Transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase), His-tagged

Cat. No. TGM2-1481H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Tissue Transglutaminase Human Recombinant produced in E.coli is a non-glycosylated, polypeptide chain having a molecular mass of 78,018 Dalton. tTG is expressed with a -6xHis tag and purified by proprietary chromatographic techniques. By point mutation of the active center the catalytic transglutaminase activity has been eliminated, resulting in increased stability during storage and coating.
Species	Human
Source	E.coli
Description	Tissue-type transglutaminase antigens have been specifically modified for improved handling: exchange of an active site amino acid eliminates the protein cross-linking activity of the enzyme, while maintaining the native three-dimensional structure and the enzyme"s secondary GTPase activity. This engineering assures reproducible properties of the antigen preparations through the absence of variable and ill-defined covalent aggregates of tTG antigen and host cell proteins.
Form	TGM2 is supplied in 16mM HEPES buffer pH-8.0, 400mM NaCl, and 20% glycerol.
Purity	Greater than 95.0% as determined by SDS-PAGE

GENE INFORMATION

Gene Name	TGM2 transglutaminase 2 (C polypeptide, protein-glutamine-gamma-

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	glutamyltransferase) [Homo sapiens]
Official Symbol	TGM2
Synonyms	TGM2; transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase); TG2; TGC; GNAH; G-ALPHA-h; Protein-glutamine gamma-glutamyltransferase 2; TG(C); Tissue transglutaminase; TGase C; Transglutaminase-2; TGase-H; EC 2.3.2.13; OTTHUMP00000030960; C polypeptide; transglutaminase 2; transglutaminase C
Gene ID	7052
mRNA Refseq	NM_004613
Protein Refseq	NP_004604
MIM	190196
UniProt ID	P21980
Chromosome Location	20q12
Pathway	Huntington"s disease
Function	GTP binding; acyltransferase activity; calcium ion binding; protein domain specific binding; protein-glutamine gamma-glutamyltransferase activity; transferase activity

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