

Recombinant Human TGM2 protein, His-tagged

Cat. No. TGM2-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGM2 protein, fused to His-tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-686aa
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 in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT.
Molecular Mass	79.4 kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAEELL ERCDLEIQAN GRDHHTADLC QEKLVLRGQ RFRLTYFEG RGYEASVDSL TFGAVTGPDP SEEAGTKARF SLSDNVEEGS WSASVLDQQD NVLSLQLCTP ANAPIGLYRL SLEASTGYQG SSFVLGHFIL LYNAWCPADD VYLDSEEERR EYVLTQQGFI YQGSVKFIKS VPWNFGQFED GILDTCLMLL DMNPKFLKNR SRDCSRRSSP IYVGRVVSAM

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VNCNDDQGV LGRWDNNYGD GISPMWIGS VDILRRWKEH GCQQVKYGGC
 WVFAAVACTV LRCLGIPTRV VTNYN SAHDQ NSNLLIEYFR NEFGELESNK
 SEMIWNFHCW VESWMTRPDL QPGYEGWQAI DPTPQEKSEG TYCCGPVSVR
 AIKEGDLSTK YDAPFVFAEV NADVVDWIRQ EDGSVLKSIN RSLVVGQKIS
 TKS VGRDDRE DITHTYKYPE GSPEEREVFT KANHLNKLAE KEETGVAMRI
 RVGDSMSMGN DFDVFAHIGN DTSETRECRL LLCARTVSYN GVLGPECGTE
 DINLTDPYS ENSIPLRILY EKYSGLCTES NLIKVRGLLI EPAANSYLLA
 ERDLYLENPE IKIRVLGEPK QNRKLVAEVS LKNPLSDPLY DCIFTVEGAG
 LTKEQKSVEV SDPVPAGDLV KARVDLFPTD IGLHKLNVNF QCDKLKSVKG
 YRNVIIGPA

Purity > 85%

Applications SDS-PAGE

Storage Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml

GENE INFORMATION

Gene Name TGM2 transglutaminase 2 [Homo sapiens (human)]

Official Symbol TGM2

Synonyms Protein-glutamine gamma-glutamyltransferase 2; Protein-glutamine gamma-glutamyltransferase 2; G[a]h; TG2; TGase2; Ttg; tTGas

Gene ID 7052

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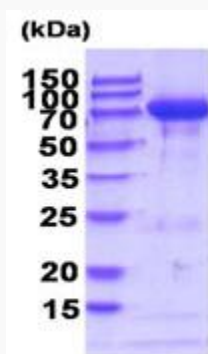
mRNA Refseq [NM_004613](#)

Protein Refseq [NP_004604](#)

MIM [190196](#)

UniProt ID [P21981](#)

15% SDS-PAGE(3
μg)



3μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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