

Recombinant Human TGM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TGM1-1287H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TGM1 MS Standard C13 and N15-labeled recombinant protein (NP_000350) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a membrane protein that catalyzes the addition of an alkyl group from an alkylamine to a glutamine residue of a protein, forming an alkylglutamine in the protein. This protein alkylation leads to crosslinking of proteins and catenation of polyamines to proteins. This gene contains either one or two copies of a 22 nt repeat unit in its 3' UTR. Mutations in this gene have been associated with autosomal recessive lamellar ichthyosis (LI) and nonbullous congenital ichthyosiform erythroderma (NCIE).
Molecular Mass	89.8 kDa
AA Sequence	MMDGPRSDVGRWGGNPLQPPTTPSPEPEPEPDGRSRRGGGRSFWARCCGCCSC RNAADDDWGPEPSDSRGRGSSSGTRRPGSRGSDSRRPVSRGSGVNAAGDGTIRE GMLVNVGVDLLSSRSQNRREHHTDEYEYDELIVRRGQPFHMLLLLSRTYESSDRIT LELLIGNNPEVGKGTHVIIPVGKGGSGGWKAQVVKASGQNLNLRVHTSPNAIIGKFQ FTVRTQSDAGEFQLPFDPRNEIYILFNPWCPEDIVYVDHEDWRQEYVLNESGRIYYG TEAQIGERTWNYGQFDHGVLDACLYILDRRGMPYGGRGDPVNVSRVISAMVNSLD

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DNGVLIGNWSGDYSRGTNPSAWVGSVEILLSYLRTGYSPYGGQCWWFAGVTTTVLR
 CLGLATRTVTNFNNSAHD TDTSLTMDIYFDENMKPLEHLNHDSVWNFHVWNCWMK
 RPDLP SGFDGWQVVDATPQETSSGIFCCGPCSVESIKNGLVYMKYDTPFIFAEVNS
 DKVYWQRQDDGSFKIVYVEEKAIGTLIVTKAISSNMREDITYLYKHPEGSDAERKAVE
 TAAAHGSKPNVYANRGS AEDVAMQVEAQDAVMGQDLMVSVMLINHSSSRRTVKLH
 LYLSVTFTYTGVS GTIFKETKKEVELAPGASDRVTMPVAYKEYRPHLVDQGAMLLNVS
 GHVKESGQVLAKQHTFRLRTPDLSLTLLGA AVVGQECEVQIVFKNPLPVTLTNNVFR
 LEGSGLQRPKILNVGDIGGNETVTLRQSFVPVRPGPRQLIASLDSPQLSQVHGVIVQV
 DVAPAPGDGGFFSDAGGDSHLGETIPMASRGGATRTRPLEQKLISEEDLAANDILDY
 KDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TGM1 transglutaminase 1 [Homo sapiens (human)]

Official Symbol TGM1

Synonyms TGM1; transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase); ICR2; protein-glutamine gamma-glutamyltransferase K; LI; LI1; TGASE; TGK; TG(K); TGase K; TGase-1; epidermal TGase; transglutaminase

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K; transglutaminase-1; transglutaminase 1 isoform; transglutaminase, keratinocyte; KTG;

Gene ID [7051](#)

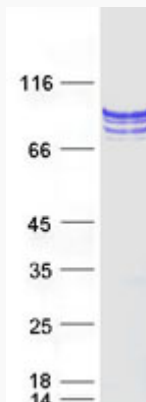
mRNA Refseq [NM_000359](#)

Protein Refseq [NP_000350](#)

MIM [190195](#)

UniProt ID [P22735](#)

SDS-PAGE



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