

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	MMDGPRSDVGRWGGNPLQPPTTSPPEPEPEPDGRSRRGGGRSFWARCCGCCSC RNAADDDWGPEPSDSRGRGSSSGTRRPGSRGSDSRRPVSRGSGVNAAGDGTIRE GMLVVNGVDLLSSRSQNRREHHTDEYEYDELIVRRGQPFHMLLLLSRTYESSDRIT LELLIGNNPEVGKGTHTVIVGKGGSGGWKAQVVKASGQNLNLRVHTSPNAIIGKFQ FTVRTQSDAGEFQLPFDPRNEIYILFNPWCPEDIVYVDHEDWRQEYVLNESGRIYYG TEAQIGERTWNYGQFDHGVLDACLYILDRRGMPYGGRGDPVNVSRVISAMVNSLD

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DNGVLIGNWSGDYSRGTNPSAWVGSVEILLSYLRTGYSPYGGQCWVFAGVTTTVLR
 CLGLATRTVTNFNSAHD TDTSLTMDIYFDENMKPLEHLNHDSVWNFHVWNCWMMK
 RPDLP SGFDGWQVVDATPQETSSGIFCCGPCSVESIKNGLVYMKYDTPFIFAEVNS
 DKVYWQRQDDGSFKIVYVEEKAIGTLIVTKAISSNMREDITYLYKHPEGS DAERKAVE
 TAAAHGSKPNVYANRGS AEDVAMQVEAQDAVMGQDLMVSVMLINHSSSRRTVKLH
 LYLSVTFYTGVS GTIFKETKKEVELAPGASDRVTMPVAYKEYRPHLVDQGAMLLNVS
 GHVKESGQVLAKQHTFRLRTPDLSLTLGAAVVGQECEVQIVFKNPLPVTLTNNVFR
 LEGSGLQRPKILNVGDIGGNETVTLRQSFVVRPGPRQLIASLDSPQLSQVHGVIQV
 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

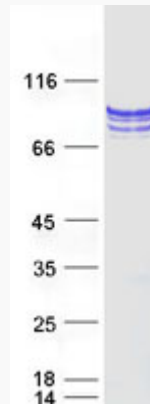
mRNA Refseq NM_000359

Protein Refseq NP_000350

MIM 190195

UniProt ID P22735

SDS-PAGE



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