Recombinant Full Length Human TGM1 Protein, C-Flag-tagged

Cat. No. TGM1-1420HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TGM1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a membrane protein that catalyzes the addition of an alkyl group from an akylamine 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).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	89.6 kDa
AA Sequence	MMDGPRSDVGRWGGNPLQPPTTPSPEPEPEPDGRSRRGGGRSFWARCCGCCSC RNAADDDWGPEPSDSRG RGSSSGTRRPGSRGSDSRRPVSRGSGVNAAGDGTIR EGMLVVNGVDLLSSRSDQNRREHHTDEYEYDELI VRRGQPFHMLLLLSRTYESSDR ITLELLIGNNPEVGKGTHVIIPVGKGGSGGWKAQVVKASGQNLNLRVH TSPNAIIGKF QFTVRTQSDAGEFQLPFDPRNEIYILFNPWCPEDIVYVDHEDWRQEYVLNESGRIYY GTE AQIGERTWNYGQFDHGVLDACLYILDRRGMPYGGRGDPVNVSRVISAMVNSL

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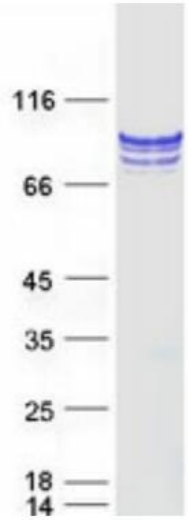
	DDNGVLIGNWSGDYSRGT NPSAWVGSVEILLSYLRTGYSVPYGQCWVFAGVTTTV LRCLGLATRTVTNFNSAHDTDTSLTMDIYFDEN MKPLEHLNHDSVWNFHVWNDCW MKRPDLPSGFDGWQVVDATPQETSSGIFCCGPCSVESIKNGLVYMKYD TPFIFAEV NSDKVYWQRQDDGSFKIVYVEEKAIGTLIVTKAISSNMREDITYLYKHPEGSDAERKA VETA AAHGSKPNVYANRGSAEDVAMQVEAQDAVMGQDLMVSVMLINHSSSRRTV KLHLYLSVTFYTGVSGTIFK ETKKEVELAPGASDRVTMPVAYKEYRPHLVDQGAMLL NVSGHVKESGQVLAKQHTFRLRTPDLSLTLLGA AVVGQECEVQIVFKNPLPVTLTNV VFRLEGSGLQRPKILNVGDIGGNETVTLRQSFVPVRPGPRQLIASL DSPQLSQVHGVIQVDVAPAPGDGGFFSDAGGDSHLGETIPMASRGGATRTRPLEQ KLISEEDLAANDILDYKDDDDKV	
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

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

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Official Symbol	TGM1
Synonyms	LI; KTG; LI1; TGK; ICR2; ARCI1; TGASE
Gene ID	7051
mRNA Refseq	NM_000359.3
Protein Refseq	NP_000350.1
MIM	190195
UniProt ID	P22735



Coomassie blue staining of purified TGM1 protein.

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