Recombinant Human TGM1 Protein, His-tagged

Cat. No. TGM1-2766H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGM1 Protein (Ser467-Ala817) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser467-Ala817
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 41.7 kDa Accurate Molecular Mass: 42 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).
Purity	> 90%

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	TGM1 transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase) [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 K; transglutaminase-1; transglutaminase 1 isoform; transglutaminase, keratinocyte; KTG;
Gene ID	7051
mRNA Refseq	NM_000359

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Protein Refseq	NP_000350
MIM	190195
UniProt ID	P22735

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