

Recombinant Human TGM3 protein, His-tagged

Cat. No. TGM3-1750H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGM3 aa. (Ala468~Glu693 (Accession # Q08188)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala468~Glu693
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 consists of two polypeptide chains activated from a single precursor protein by proteolysis. The encoded protein is involved the later stages of cell envelope formation in the epidermis and hair follicle.
Form	Freeze-dried powder
Molecular Mass	28kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.5.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	TGM3 transglutaminase 3 [Homo sapiens (human)]
Official Symbol	TGM3
Synonyms	Car5a; carbonic anhydrase 5a, mitochondrial; CAV; Ca5a; Car5; carbonic anhydrase 5A, mitochondrial; CA Y; CA-VA; carbonate dehydratase VA; carbonic anhydrase 5, mitochondrial; carbonic anhydrase 5b, mitochondrial; carbonic anhydrase VA
Gene ID	7053
mRNA Refseq	NM_003245.3

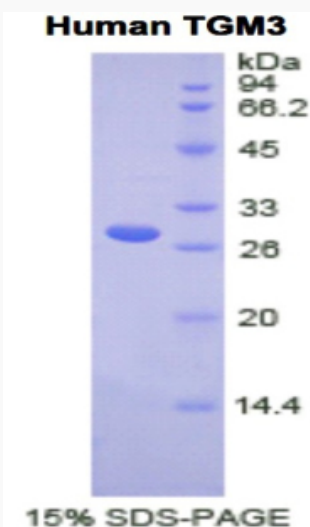
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Protein Refseq NP_003236.3

UniProt ID Q08188



SDS-PAGE

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