

Recombinant Rat Tgm3 Protein, His-tagged

Cat. No. Tgm3-2131R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Tgm3 Protein (Ala468-Glu693) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Ala468-Glu693
Description	Catalyzes the calcium-dependent formation of isopeptide cross-links between glutamine and lysine residues in various proteins, as well as the conjugation of polyamines to proteins. Involved in the formation of the cornified envelope (CE), a specialized component consisting of covalent cross-links of proteins beneath the plasma membrane of terminally differentiated keratinocytes. Catalyzes small proline-rich proteins and LOR cross-linking to form small interchain oligomers, which are further cross-linked by TGM1 onto the growing CE scaffold. In hair follicles, involved in cross-linking structural proteins to hardening the inner root sheath (By similarity).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.8 kDa Accurate Molecular Mass: 31 kDa
Purity	> 90%

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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	Tgm3 transglutaminase 3, E polypeptide [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Tgm3
Synonyms	TGM3; transglutaminase 3, E polypeptide; protein-glutamine gamma-glutamyltransferase E; TGase E; TGase-3; transglutaminase E; transglutaminase-3; TGE; TG(E); RGD1561831;
Gene ID	366189
mRNA Refseq	NM_001108959
Protein Refseq	NP_001102429
UniProt ID	D4A5U3

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