

Recombinant Mouse Tgm3 Protein, Myc/DDK-tagged

Cat. No. Tgm3-6398M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length transglutaminase 3, E polypeptide (Tgm3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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 (SPRR1 and SPRR2) 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.
Molecular Mass	77.3 kDa
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 after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Tgm3 transglutaminase 3, E polypeptide [*Mus musculus* (house mouse)]

Official Symbol Tgm3

Synonyms TGM3; transglutaminase 3, E polypeptide; protein-glutamine gamma-glutamyltransferase E; TGE; TG E; TG(E); TGase E; TGase-3; E polypeptide; transglutaminase E; transglutaminase-3; protein-glutamine-gamma-glutamyltransferase; AI893889; MGC150256; MGC150257

Gene ID 21818

mRNA Refseq NM_009374

Protein Refseq NP_033400

UniProt ID Q08189

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