Active Recombinant Guinea pig TGM2 Protein, His tagged

Cat. No. TGM2-053G **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Guinea pig TGM2 Protein with His tag was expressed in E.coli.
Species	Guinea pig
Source	E.coli
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 acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease. Two transcript variants encoding different isoforms have been found for this gene.
Form	White lyophilized solid
Bio-activity	> 8 U/mg [Activity is determined using the hydroxamate assay according to Folk and Cole, Biochim. Biophys. Acta 122; 244-264, (1966). One unit is defined as the formation of 1 μmol hydroxamate per minute from Z-Gln-Gly-OH and hydroxylamine at pH 6,0 at 37 centigrade containing 10 mM CaCl2 (L-Glutamic acid γ-monohydroxamate is the standard)].
Molecular Mass	77 kDa
Purity	> 95 %, visually by SDS-PAGE

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Applications	rgpTG2 catalyzes acyl transfer reactions from glutamin residues in proteins or peptides to primary amines, e. g. the formation of ε-(γ-glutamyl) lysine bonds between proteins by transferring the acyl group of a peptide-bound glutamine residue to the primary amino group of a peptide-bound lysine residue.
Storage	Store at -20 centigrade. Avoid repeated freezing and thawing. Delivery is possible at ambient temperature
Reconstitution	Add H2O to the vial of lyophilized powder. Rotate vial gently until solid dissolves.
Activation	10 mM CaCl2
CAS	80146-85-6
EC	EC 2.3.2.13

GENE INFORMATION

Gene Name	Tgm2 transglutaminase 2 [Cavia porcellus (domestic guinea pig)]
Official Symbol	TGM2
Synonyms	TGM2; transglutaminase 2, C polypeptide; protein-glutamine gamma-glutamyltransferase 2; TGase C;
Gene ID	100379228
mRNA Refseq	NM_001173102
Protein Refseq	NP_001166573

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UniProt ID	H0VK88

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