



Recombinant Human Protein-glutamine gamma-glutamyltransferase 5 (TGM5)

Product Code	CSB-EP023465HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O43548
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	AQGLEVALT DLQSSRNNVR HHTEEITVDH LLVRRGQAFN LTLYFRNRSF QPGLDNIIFV VETGPLPDLA LGTRAVFSLA RHHSPSPWIA WLETNGATST EVSLCAPPTA AVGRYLLKIH IDSFQGSVTA YQLGEFILLF NPWCPEDAVY LDSEPQRQEY VMNDYGFYQ GSKNWIRPCP WNYGQFEDKI IDICKLLDK SLHFQTDPAT DCALRGSPVY VSRVVCAMIN SNDDNGVLNG NWSENYTDGA NPAEWTGSVA ILKQWNATGC QPVRYGQCWV FAAVMCTVMR CLGIPTRVIT NFDSGHDTDG NLIIDEYYDN TGRILGNKKK DTIWNFHVWN ECWMARKDLP PAYGGWQVLD ATPQEMSNGV YCCGPASVRA IKEGEVDLNY DTPFVFSMVN ADCMSWLQVQ GKEQKLHQDT SSVGNFISTK SIQSDERDDI TENYKYEES LQERQVFLKA LQKLKARSFH GSQRGAELQP SRPTSLSQDS PRSLHTPSLR PSDVVQVSLK FKLLDPPNMG QDICFVLLAL NMSSQFKDLK VNLSAQSLH DGSPLSPFWQ DTAFITLSPK EAKTYPCKIS YSQYSQYLST DKLIRISALG EEKSSPEKIL VNKIITLSTYP SITINVLGAA VVNQPLSIQV IFSNPLSEQV EDCVLTVEGS GLFKKQQKVF LGVLKPQHQA SIILETVPFK SGQRQIQANM RSNKFKDIKG YRNVYVDFAL
Source	E.coli
Target Names	TGM5
Protein Names	Recommended name: Protein-glutamine gamma-glutamyltransferase 5 EC=2.3.2.13 Alternative name(s): Transglutaminase X Short name= TG(X) Short name= TGX Short name= TGase X Transglutaminase-5 Short name= TGase-
Expression Region	2-720
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes a member of the transglutaminase family. The encoded protein catalyzes formation of protein cross-links between glutamine and lysine residues, often resulting in stabilization of protein assemblies. This reaction is calcium dependent. Mutations in this gene have been associated with acral peeling skin syndrome.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.