



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

|                          |  |
|--------------------------|--|
| <b>Product Code</b>      | CSB-MP023465HU   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | O43548   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | AQGLEVALT DLQSSRNNVR HHTEEITVDH LLVRRGQAFN LTLYFRNRSF<br>QPGLDNIIFV VETGPLPDLA LGTRAVFSLA RHHSPSPWIA WLETNGATST<br>EVSLCAPPTA AVGRYLLKIH IDSFQGSVTA YQLGEFILLF NPWCPEDAVY<br>LDSEPQRQEY VMNDYGFYQ GSKNWIRPCP WNYGQFEDKI IDICKLLDK<br>SLHFQTDPAT DCALRGSPVY VSRVVCAMIN SNDDNGVLNG NWSENYTDGA<br>NPAEWTGSVA ILKQWNATGC QPVRYGQCWV FAAVMCTVMR CLGIPTRVIT<br>NFDSGHDTDG NLIIDEYYDN TGRILGNKKK DTIWNFHVWN ECWMARKDLP<br>PAYGGWQVLD ATPQEMSNGV YCCGPASVRA IKEGEVDLNY DTPFVFSMVN<br>ADCMSWLQVG GKEQKLHQDT SSVGNFISTK SIQSDERDDI TENYKYEES<br>LQERQVFLKA LQKLKARSFH GSQRGAELQP SRPTSLSQDS PRSLHTPSLR<br>PSDVVQVSLK FKLLDPPNMG QDICFVLLAL NMSSQFKDLK VNLSAQSLH<br>DGSPLSPFWQ DTAFITLSPK EAKTYPCKIS YSQYSQYLST DKLIRISALG<br>EEKSSPEKIL VNKIITLSTYP SITINVLGAA VVNQPLSIQV IFSNPLSEQV<br>EDCVLTVEGS GLFKKQKVF LGVLKPQHQA SIILETVPFK SGQRQIQANM<br>RSNKFKDIKG YRNVYVDFAL |
| <b>Source</b>            | Mammalian cell   |
| <b>Target Names</b>      | TGM5   |
| <b>Protein Names</b>     | 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-  |
| <b>Expression Region</b> | 2-720  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.  |
| <b>Protein Length</b>    | Full Length of Mature Protein  |
| <b>Target Details</b>    | 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.   |
| <b>Reconstitution</b>    | 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.