

## 32-6920: TGM2 Mouse

**Alternative Name :** Protein-glutamine gamma-glutamyltransferase 2, G[a]h, TG2, TGase2, tTG, tTGas, Protein-glutamine gamma-glutamyltransferase 2, Tissue transglutaminase, Transglutaminase C.

### Description

Source: E.coli.

Sterile Filtered colorless solution.

Celiac disease is an enteropathy that is characterized by intestinal lesions of variable severity. Tissue-type transglutaminase (tTG) is believed to be the predominant autoantigen for celiac disease and the corresponding autoantibodies show higher sensitivity and specificity than anti-gliadin antibodies. Highly pure recombinant human tTG is now available to replace the traditionally used tTG fraction from guinea pig. Tissue-type transglutaminase antigens have been specifically modified for improved handling: exchange of an active site amino acid eliminates the protein cross-linking activity of the enzyme, while maintaining the native three-dimensional structure and the enzyme's secondary GTPase activity. This engineering assures reproducible properties of the antigen preparations through the absence of variable and ill-defined covalent aggregates of tTG antigen and host cell proteins.

TGM2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 709 amino acids (1-686 a.a) and having a molecular mass of 79.4kDa. TGM2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

### Product Info

<b>Amount :</b>	5 µg / 20 µg
<b>Purification :</b>	Greater than 85% as determined by SDS-PAGE.
<b>Content :</b>	TGM2 protein solution (0.5mg/ml) in Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MGSMAEELL ERCDLEIQAN GRDHHTADLC QEKLVLRRGQ RFRLTYFEG RGYEASVDSL TFGAVTGPDPSEEAGTKARF SLSDNVEEGS WSASVLDQQD NVLSLQLCTP ANAPIGLYRL SLEASTGYQG SSFVLGHFIL LYNAWCPADD VYLDSEEERR EYVLTQQGFI YQGSVKFIKS VPWNFGQFED GILDTCLMLL DMNPKFLKNR SRDCSRRSSP IYVGRVVSAM VNCNDDQGVL LGRWDNNYGD GISPMAWIGS VDILRRWKEH GCQQVKYQC WVFAAVACTV LRCLGIPTRV VTNYNSAHDQ NSNLLIEYFR NEFGELESNK SEMIWNFHCW VESWMTRPDL QPGYEGWQAI DPTPQEKSEG TYCCGPVSVR AIKEGDLSTK YDAPFVFAEV NADVVDWIRQ EDGSVLKSIN RSLVVGQKIS TKSVGRDDRE DITHTYKYPE GSPEEREVFT KANHLNKLAE KEETGVAMRI RVGDSMSMGN DFDVFAHIGN DTSETRECL LLCARTVSYN GVLGPECGTE DINLTDLPYS ENSIPLRILY EKYSGLCTES NLIKVRGLLI EPAANSYLLA ERDLYLENPE IKIRVLGEPK QNRKLVAEVS LKNPLSDPLY DCIFTVEGAG LTKEQKSVEV SDPVPAGDLV KARVDLFPD IGLHKLNVNF QCDKLSVKG YRNVIIIPA.