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**Product Data Sheet**


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Product Name: TGM2 Mouse

Cat. No.: GP22292

Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein-glutamine gamma-glutamyltransferase 2; G[a]h;TG2; TGase2; tTG; tTGas; Protein-glutamine gamma-glutamyltransferase 2; Tissuetransglutaminase; Transglutaminase C.		
Amino Acid Sequence	<p>MGSSHHHHHSSGLVPRGSH MGSMAEELLERCDLEIQAN GRDHHTADLC          QEKLVLRRGQ RFRLTLYFEG RGYEASVDSL          TFGAVTGPDPSEEAGTKARFSLSDNVEEGS WSASVLDQQD NVLSLQLCTP          ANAPIGLYRL SLEASTGYQG SSFVLGHFIL LYNAWCPADDVYLDSEEERR          EYVLTQQGFI YQGSVKFIKS VPWNFGQFED GILDTCLMLL DMNPKFLKNR          SRDCSRRSSPIYVGRVVSAM VNCNDDQGV LGRWDNNYGD GISPMAWIGS          VDILRRWKEH GCQQVKYGQC WVFAAVACTVLRCLGIPTRV VTNYN SAHDQ          NSNLLIEYFR NEFGELESNK SEMIWNFHCW VESWMTRPDL          QPGYEGWQAIDPTPQEKSEG TYCCGPVSVR AIKEGDLSTK YDAPFVFAEV          NADVVDWIRQ EDGSVLKSIN RSLVVGQKIS TKS VGRDDREDITHYKYPE          GSPEEREVFT KANHLNKLAE KEETGVAMRI RVGDSMSMGN DFDVFAHIGN          DTSETRECRLLLCARTVSYN GVLGPEGTE DINLTLDPYS ENSIPLRILY          EKYSGLCTES NLIKVRGLLI EPAANSYLLAERDLYLENPE IKIRVLGEPK          QNRKLVAEVS LKNPLSDPLY DCIFTVEGAG LTKEQKSVEV          SDPVPAGDLVKARVDLFTD IGLHKLNVNF QCDKLSVKG YRNVIIGPA.</p>		
Formulation	TGM2 protein solution (0.5mg/ml) in Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.		

**Introduction**

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

### Stability

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.

### Background

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.

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