

TGM2

Recombinant Human TGM2/Tissue-type Transglutaminase Sf9 His

Catalog No.	CSI10688 CSI10689 CSI10690	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Protein-glutamine gamma-glutamyltransferase 2, EC 2.3.2.13, Tissue transglutaminase, TGase C, TGC, TG(C), Transglutaminase-2, TGase-H, TG2, TGM2.		
Description:	<p>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.</p> <p>Tissue Transglutaminase Human Recombinant produced in Sf9 is a glycosylated, polypeptide chain having a molecular mass of 78,018 Dalton. tTG is expressed with a -6xHis tag and purified by proprietary chromatographic techniques. By point mutation of the active center the catalytic transglutaminase activity has been eliminated, resulting in increased stability during storage and coating.</p>		
Concentration:	1.2 mg/ml		
GenelD:	7052		
Source:	Sf9 insect cells		
Molecular Mass:	78,018 Dalton		
Formulation:	TGM2 is supplied in 16mM HEPES buffer pH-8.0 +320mM NaCl, and 20% glycerol.		
Purity:	> 95.0% as determined by SDS-PAGE analysis		
Endotoxin Level:	< 0.1 ng/µg of protein		
Immunological Functions:	<ol style="list-style-type: none"> 1. Binds IgA & IgG-type human auto-antibodies. 2. Standard ELISA test (checker-board analysis of positive/negative sera panels, immuno-dot test). 		
Coating Concentration:	0.6-1.4 µg/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.		
Applications:	Western-Blot with monoclonal anti-hexa-His-tag antibody.		



Application Notes: For Western Blot, use with monoclonal anti-hexa-His-tag antibody. For ELISA, use a working dilution of 0.6-1.4 µg/ml (depending on the type of ELISA plate and coating buffer). Binds IgA and IgG-type human auto-antibodies. Suitable for biotinylation and iodination. The optimal concentration should be determined by the user for each specific application.

Storage & Stability: Stable for 4 weeks at 2-4°C. For long term storage, aliquot and store at -20°C. **Avoid repeated freeze-thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.