

## TGM2 Protein, Mouse, Recombinant (His)

## General Information

Synonyms:	Transglutaminase C;Tgm2;Tissue transglutaminase;TGase-2;Protein-glutamine gamma-glutamyltransferase 2;Protein-glutamine $\gamma$ -glutamyltransferase 2
Protein Construction:	Ala2-Ala686
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P21981
Molecular Weight:	70-90 KDa (reducing condition)
AA Sequence:	Ala2-Ala686

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 $\mu$ m filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 20% Glycerol, pH 7.5.

## Preparation and Storage

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

Proteins are shipped with blue ice.

## Protein Background

Protein-glutamine gamma-glutamyltransferase 2 (TGM2) is a 78-kDa, calcium dependent enzyme, it belongs to the transglutaminase superfamily and transglutaminase family. The protein encoded by this TGM2 gene acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. TGM2 is the autoantigen implicated in celiac disease. Two transcript variants encoding different isoforms have been found for this gene.

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