

# Mouse TGM2 Protein

Cat. No. TGM-ME102

## Description

<b>Source</b>	Recombinant Mouse TGM2 Protein is expressed from E.coli with His tag at the N-Terminus. It contains Ala2-Ala686.
<b>Accession</b>	P21981-1
<b>Molecular Weight</b>	The protein has a predicted MW of 78.2 kDa same as Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

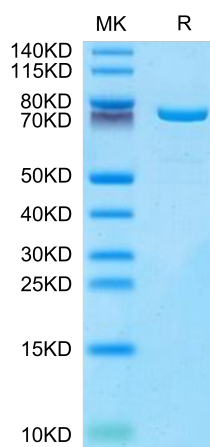
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Transglutaminase 2 (TGM2) is a member of the transglutaminase family, and it is reported to be associated with chemoresistance in various types of cancer. TGM2 was demonstrated to affect the chemosensitivity of osteosarcoma cells via regulation of the activation of mitogenactivated protein kinase and AKT serine/threonine kinase pathways.

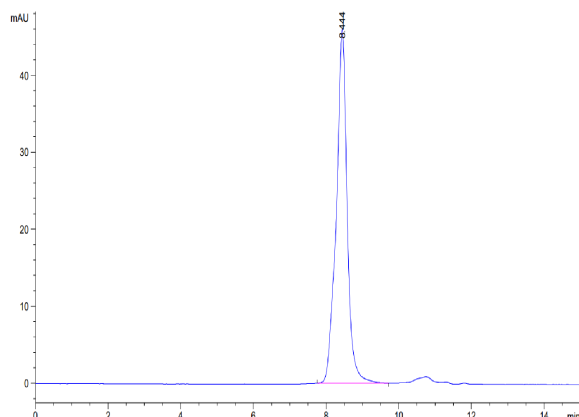
## Assay Data

### Bis-Tris PAGE



Mouse TGM2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Mouse TGM2 is greater than 95% as determined by SEC-HPLC.