

# Human TIMP-2 Protein, Ultra Low Endotoxin

Cat. No. TIM-HM1P2-UL

## Description

<b>Source</b>	Recombinant Human TIMP-2 Protein Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Cys27-Pro220.
<b>Accession</b>	P16035
<b>Molecular Weight</b>	The protein has a predicted MW of 22.9 kDa. Due to glycosylation, the protein migrates to 24-26 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

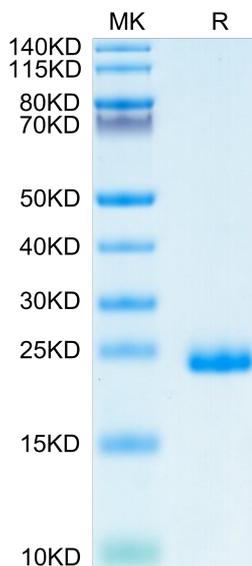
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</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

Tissue inhibitors of metalloproteinases or TIMPs are a family of proteins that regulate the activation and proteolytic activity of the zinc enzymes known as matrix metalloproteinases (MMPs). TIMP-2 is a non-glycosylated protein with a molecular mass of 22 kDa produced by a wide range of cell types, which inhibits MMPs non-covalently by the formation of binary complexes. TIMP-2 also has erythroidpotentiating and cell growth promoting activities.

## Assay Data

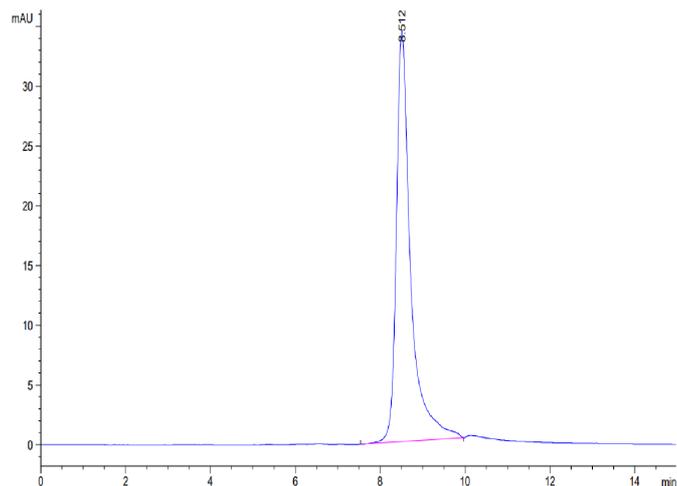
### Bis-Tris PAGE



Human TIMP-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

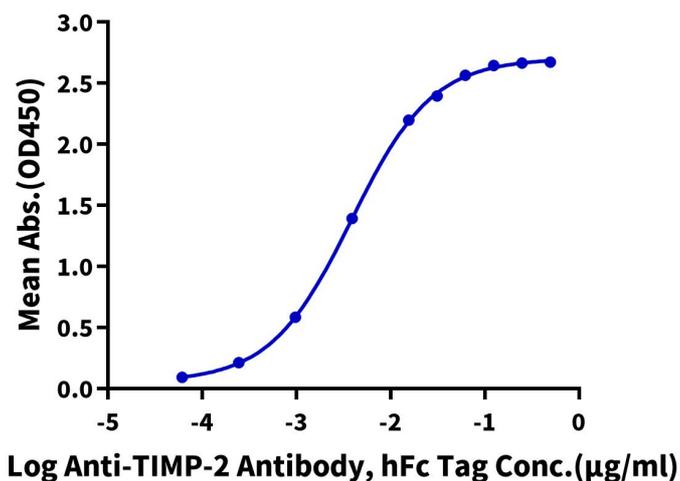


The purity of Human TIMP-2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human TIMP-2, His Tag ELISA

0.05µg Human TIMP-2, His Tag Per Well



Immobilized Human Human TIMP-2, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-TIMP-2 Antibody, hFc Tag with the EC50 of 3.8ng/ml determined by ELISA (QC Test).