Human TIMP-2 Protein

Cat. No.　　TIM-HM1P2

Description

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Source	Recombinant Human TIMP-2 Protein Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Cys27-Pro220.
Accession	P16035
Molecular Weight	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.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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 N-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.
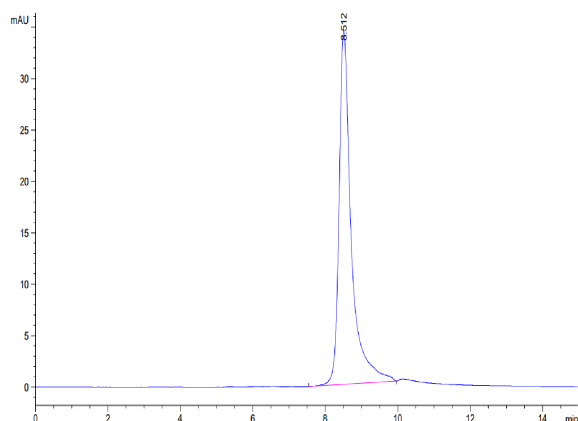
Assay Data

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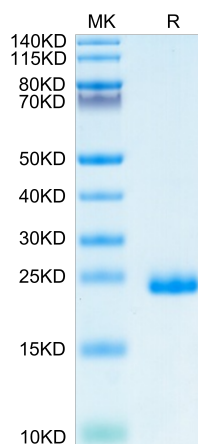
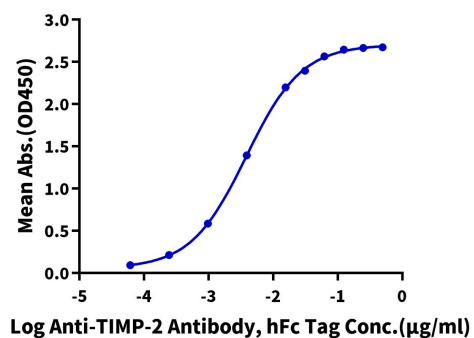Human TIMP-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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

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Assay Data

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).