

Human TIMP-1 Protein

Cat. No. TIM-HM201

Description

Source	Recombinant Human TIMP-1 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Cys24-Ala207.
Accession	NP_003245.1
Molecular Weight	The protein has a predicted MW of 47.01 kDa. Due to glycosylation, the protein migrates to 55-65 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 inhibitor of metalloprotease-1 (TIMP-1) is a tissue inhibitor of matrix metalloproteinases (MMPs). It however exerts multiple effects on biological processes, such as cell growth, proliferation, differentiation and apoptosis, in an MMP-independent manner.

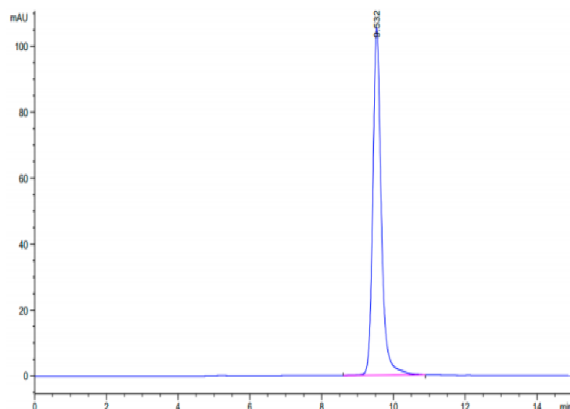
Assay Data

Bis-Tris PAGE



Human TIMP-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human TIMP-1 is greater than 95% as determined by SEC-HPLC.