

RP00456

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# Recombinant Human TIMP-4 Protein

Catalog No.: RP00456

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Human	7079	Q99727

**Tags**  
C-6×His

**Synonyms**  
TIMP4

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

**Endotoxin**  
< 1 EU/μg of the protein by LAL method.

**Formulation**  
Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 150 mM NaCl, pH8.0. Contact us for customized product form or formulation.

**Reconstitution**  
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

## Background

This protein belongs to the TIMP family. The proteins encoded by this family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. The secreted, netrin domain-containing protein encoded by this gene is involved in regulation of platelet aggregation and recruitment and may play role in hormonal regulation and endometrial tissue remodeling.

## Basic Information

**Description**  
Recombinant Human TIMP-4 Protein is produced by Human Cell expression system. The target protein is expressed with sequence (Cys30-Pro224) of human TIMP-4 (Accession #Q99727) fused with a 6×His tag at the C-terminus.

**Bio-Activity**  
Measured by its ability to inhibit human MMP-2 cleavage of a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH<sub>2</sub>. The IC<sub>50</sub> value is approximately 2.5 nM.

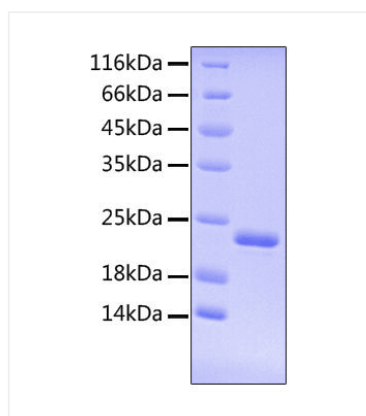
**Storage**  
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant protein Human TIMP-4 was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 24 kDa.