

# Human TIMP-1/TIMP1 recombinant protein



Catalog Number: 502900

## General Information

### Gene Name Synonym

Erythroid-potentiating activity; Fibroblast collagenase inhibitor; Tissue inhibitor of metalloproteinases 1

### Protein Construction

A DNA sequence encoding the mature form of human TIMP1 (NP\_003245.1) (Cys 24-Ala 207) was expressed.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit human MMP-2 cleavage of a fluorogenic peptide substrate MCA-PLGL-DPA-AR-NH<sub>2</sub>(R&D Systems, Catalog # ES001). The IC<sub>50</sub> value is < 6 nM.

### Purity

> 97 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Cys 24

### Molecular Mass

The recombinant human TIMP1 comprises 184 amino acids with a predicted molecular mass of 21 kDa. It migrates as an approximately 26 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 20mM NaAC, 200mM NaCl, pH 5.5

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

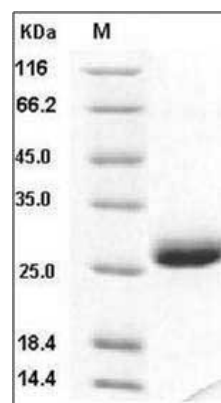
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human TIMP-1 / TIMP1 Protein SDS-PAGE