

# Rat TIMP-1/TIMP1 recombinant protein



Catalog Number: 501162

## General Information

### Gene Name Synonym

HDC; Heavy chain disease protein

### Protein Construction

A DNA sequence encoding the rat TIMP1 (P01860) (Met1-Ala217) was expressed and purified.

### Organism

Rat

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit human MMP2 cleavage of a fluorogenic peptide substrate MCA-PLGLDPA-AR-NH<sub>2</sub>, AnaSpec Catalog # 27076. The IC<sub>50</sub> value is approximately 4 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 rat TIMP1 consists of 194 amino acids and has a predicted molecular mass of 21.5 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 28 kDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 7.0.

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

## Usage Guide

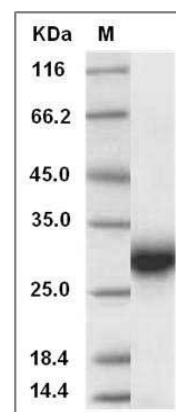
### Storage

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



Rat TIMP-1 / TIMP1 Protein SDS-PAGE