

Recombinant Mouse TIMP-1 Protein

Catalog No.: RP01853 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21857	P12032

Tags

C-His

Synonyms

Metalloproteinase inhibitor 1;
Collagenase inhibitor 16C8 fibroblast;
Erythroid-potentiating activity; EPA; TPA-S1; TPA-induced protein; Tissue inhibitor of metalloproteinases 1; TIMP-1
Timp1; Timp; Timp-1

Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
21.08 kDa	30-35 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

TIMP metalloproteinase inhibitor 1 is also known as TIMP1, a tissue inhibitor of metalloproteinases, is a glycoprotein that is expressed from the several tissues of organisms. This protein a member of the TIMP family. There are four members of the family, TIMP1, TIMP2, TIMP3 and TIMP4. TIMP1 is a glycoprotein with a molecular mass of 28 kDa produced by a wide range of cell types. The glycoprotein is a natural inhibitor of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction.

Basic Information

Description

Recombinant Mouse TIMP-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys25-Arg205) of Mouse TIMP-1 (Accession #NP_035723.2) fused with His tag at the C-terminus.

Bio-Activity

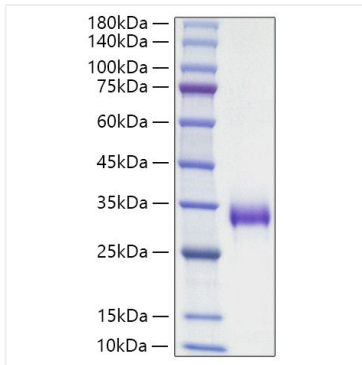
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

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.

Validation Data



Recombinant Mouse TIMP-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 30-35 kDa.