

Recombinant Mouse TIMP-1 Protein

Catalog No.: RP01853 **Recombinant**

Sequence Information

Species HEK293 cells
Gene ID 21857
Swiss Prot 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

Background

TIMP metallopeptidase 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.

Product Information

Source HEK293 cells
Purification ≥ 95% as
 determined by
 SDS-PAGE.

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.

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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it
 immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for
 handling.

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.

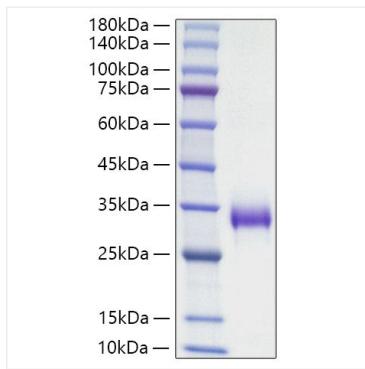
Avoid repeated freeze/thaw cycles.

Contact



www.abclonal.com

Validation Data



Recombinant Mouse TIMP-1 Protein
was determined by SDS-PAGE under
reducing conditions with Coomassie
Blue.