

Recombinant Human TIMP4 protein (rFc Tag)

Catalog Number: Eg3334

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human TIMP4 protein Cys30-Pro224 (Accession# Q99727) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

7079

Accession:

Q99727

Predicted Molecular Mass:

48.7 kDa

SDS-PAGE:

48-60 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Endogenous inhibitors of matrix metalloproteinases (MMPs) called tissue inhibitors of matrix metalloproteinases (TIMPs) form a family of four members, TIMP1-4. Although possessing many similarities, TIMPs show several structural and biochemical differences, and their expression patterns differ. TIMP4 is characterized by being primarily restricted to cardiovascular structures. Experimental studies have suggested a role for TIMP4 in cardiovascular disorders exhibiting an inflammatory component. Overexpression of TIMP4 has been observed within the arterial wall in rats after a balloon injury. TIMP4 has been shown to suppress vascular smooth muscle cell migration and induce cell apoptosis and to inhibit capillary endothelial cell migration.

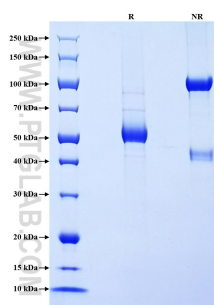
References

1. Baker AH.et al. (2002) J Cell Sci.115:3719-3727.
2. SpinaleFG.et al.(2002) Circ Res.90:520-530.
- 3.LiYY.et al. (1999) Cardiovasc Res.42:162-72.
4. Schulze CJ.et al. (2003) Circulation.107:2487-92.
5. Guo YH.et al. (2004) Life Sci.75:2483-93.

Synonyms

TIMP4, TIMP-4, Metalloproteinase inhibitor 4, TIMP 4

Selected Validation Data



Purity of Recombinant Human TIMP4 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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