A Reliable Research Partner in Life Science and Medicine

# **Recombinant Mouse TIMP-2/TIMP2 protein (His tag)**

Catalog No. PDEM100090

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Synonyms CSC-21Ktissue inhibitor of metalloproteinase 2;metalloproteinase inhibitor 2;TIMP

metalloproteinase inhibitor 2; Tissue inhibitor of metalloproteinase 2.

SpeciesMouseExpression HostE.coli

Sequence Cys 27-Pro 220

AccessionP25785Calculated Molecular Weight21.2 kDaObserved molecular weight25 kDaTagN-His

**Bioactivity** Not validated for activity

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** Please contact us for more information.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

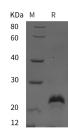
protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis

### Data



> 95 % as determined by reducing SDS-PAGE.

# Background

#### For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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### **Elabscience Bionovation Inc.**



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Mouse Metalloproteinase inhibitor 2(TIMP-2), belongs to a family of proteins that regulate the activation and proteolytic activity of matrix metalloproteinases (MMPs). There are four mammalian members of the family; TIMP-1, TIMP-2, TIMP-3, and TIMP-4. The TIMP-2 is detected in testis, retina, hippocampus and cerebral cortex. The function of TIMP 2 protein is to inhibit MMPs non covalently by the formation of binary complexes. Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. And the interaction with MMP-14 facilitates the activation of pro-MMP-2. It has been shown that the binding of TIMP 2 to a3b1 integrin results in the inhibition of endothelial cell proliferation and angiogenesis.

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