Recombinant Mouse TIMP-2
Catalog # CC68
Derived from Human Cells

**DESCRIPTION**
Recombinant Mouse Tissue Inhibitor of Metalloproteinases 2 is produced by our Mammalian expression system and the target gene encoding Cys27-Pro220 is expressed with a 6His tag at the C-terminus.

Accession #: P25785
Known as: TIMP-2; CSC-21Ktissue inhibitor of metalloproteinase 2; metalloproteinase inhibitor 2; TIMP

**FORMULATION**
Supplied as a 0.2 μm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.

**SHIPPING**
The product is shipped on dry ice/polar packs.
Upon receipt, store it immediately at the temperature listed below.

**STORAGE**
Store at ≤ -20°C, stable for 6 months after receipt.
Please minimize freeze-thaw cycles.

**QUALITY CONTROL**
Purity: Greater than 95% as determined by reducing SDS-PAGE.(three-band)
Endotoxin: Less than 0.1 ng/µg (1 IEU/µg).

**AMINO ACID SEQUENCE**
CSCSPVHPQQAFCNADVIRAKAYSEKEDSGNIDYGNPIKRQYEIQKIMFKGIPDKIEFYIATPSAVCGVSLVDVGKKEYLIAGKAEDGKMHITLDHVWDTSITQKSLHRVQMGCECKITRPCMYISSPEDCLMDWTEKSNHGAKFACIKRSGSCAWYRGAPPKEFLDIEPDH

**BACKGROUND**
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 metalloproteinasces (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.

![SDS-PAGE](image)

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