

## TIMP-2 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	metalloproteinase inhibitor 2;Tissue inhibitor of metalloproteinase 2;CSC-21Ktissue inhibitor of metalloproteinase 2;TIMP-2;TIMP metalloproteinase inhibitor 2
Protein Construction:	Cys27-Pro220
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P25785
Molecular Weight:	21 KDa (reducing condition)
AA Sequence:	Cys27-Pro220

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

Proteins are shipped with blue ice.

### Protein 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 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 α3β1 integrin results in the inhibition of endothelial cell proliferation and angiogenesis.

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