



Recombinant Protein Technical Manual

Recombinant Mouse TIMP2/TIMP-2 Protein (His Tag)
RPES3268

Product Data:

Product SKU: RPES3268

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P25785

Protein Information:

Molecular Mass: 22.5 kDa

AP Molecular Mass: 21kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: TIMP-2; CSC-21K tissue inhibitor of metalloproteinase 2; metalloproteinase inhibitor 2; TIMP metalloproteinase inhibitor 2; Tissue inhibitor of metalloproteinase 2.

Immunogen Information:

Sequence: Cys27-Pro220

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, 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 MMP4 facilitates the activation of pro-MMP-2. It has been shown that the binding of TIMP 2 to $\alpha 3\beta 1$ integrin results in the inhibition of endothelial cell proliferation and angiogenesis.