

## 32-7905: Recombinant Mouse Tissue Inhibitor of Metalloproteinases 2/TIMP-2 (C-6His)(Discontinued)

**Gene :** Timp2  
**Uniprot ID :** P25785

### Description

Source: Human Cells.  
MW :22.5kD.

Recombinant Mouse Tissue Inhibitor of Metalloproteinases 2 is produced by our expression system and the target gene encoding Cys27-Pro220 is expressed 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  $\alpha 3\beta 1$  integrin results in the inhibition of endothelial cell proliferation and angiogenesis.

### Product Info

**Amount :** 10  $\mu\text{g}$  / 50  $\mu\text{g}$   
**Content :** Supplied as a 0.2  $\mu\text{m}$  filtered solution of 20mM TrisHCl, 150mM NaCl, pH7.5.  
**Storage condition :** Store at  $-20^{\circ}\text{C}$ , stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** CSCSPVHPQQAFNCNADVIRAKAVSEKEVDSGNDIYGNIKRIQYEIKQIKMFKGPKDIEFIYTAPSSAVCGVSL  
DVGKKEYLIAGKAEGDGKMHITLCDFIVPWTLSITQKKSLNHRYQMGCECKITRCPMIPCYISSPDECLWMD  
WVTEKSINGHQAKFFACIKRSDGSCAWYRGAAPPKQEFLDIEDPHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu\text{g}$  (1 IEU/ $\mu\text{g}$ ) as determined by LAL test.