

Product datasheet for **TP727101**

Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Tissue Inhibitor of Metalloproteinases 2/TIMP-2 (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Cys27-Pro220
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of PBS, pH7.4.
Note:	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.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Synonyms:	TIMP-2; CSC-21K tissue inhibitor of metalloproteinase 2; metalloproteinase inhibitor 2; TIMP metalloproteinase inhibitor 2; Tissue inhibitor of metalloproteinase 2.
Summary:	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.



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