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

Catalog No. PKSM041160

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description		
Synonyms	TIMP-2;CSC-21Ktissue inhibitor of metalloproteinase 2;metalloproteinase inhibitor 2;TIMP metalloproteinase inhibitor 2;Tissue inhibitor of metalloproteinase 2.	
Species	Mouse	
Expression Host	HEK293 Cells	
Sequence	Cys27-Pro220	
Accession	P25785	
Calculated Molecular Weight	22.5 kDa	
Observed molecular weight	21 kDa	
Tag	C-His	
Bioactivity	Not validated for activity	
Properties		
Purity	> 95 % as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.	
Storage	Store at $< -20^{\circ}$ 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 $< -20^{\circ}$ C.	
Formulation	Supplied as a 0.2 μ m filtered solution of PBS, pH7.4.	
Reconstitution	Not Applicable	
Data		

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> 95 % as determined by reducing SDS-PAGE.

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

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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.

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