

Active Recombinant Rat TIMP1 Protein

Cat. No. TIMP1-1072R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant rat TIMP1 (P01860) (Met1-Ala217) was expressed and purified.
Species	Rat
Source	HEK293
ProteinLength	1-217 a.a.
Predicted N Terminal	Cys 24
Form	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 7.0, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its ability to inhibit human MMP2 cleavage of a fluorogenic peptide substrate MCA-PLGLDPA-AR-NH ₂ . The IC ₅₀ value is approximately 4 nM.
Molecular Mass	The recombinant rat TIMP1 consists of 194 amino acids and has a predicted molecular mass of 21.5 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 28 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>97 % as determined by SDS-PAGE.

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Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	Timp1 TIMP metalloproteinase inhibitor 1 [Rattus norvegicus]
Official Symbol	TIMP1
Synonyms	TIMP1; TIMP metalloproteinase inhibitor 1; metalloproteinase inhibitor 1; tissue inhibitor of metalloproteinase 1; tissue inhibitor of metalloproteinase 1; tissue inhibitor of metalloproteinases 1; Timp; TIMP-1;
Gene ID	116510
mRNA Refseq	NM_053819
Protein Refseq	NP_446271
MIM	
UniProt ID	
Pathway	Hemostasis, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; Platelet degranulation, organism-specific biosystem; Response to elevated platelets

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Function

enzyme inhibitor activity; metal ion binding; metalloendopeptidase inhibitor activity;
metalloendopeptidase inhibitor activity;

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