

Product datasheet for **TP723887**

Timp1 (NM_011593) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse tissue inhibitor of metalloproteinase 1 (Timp1), transcript variant 2
Species:	Mouse
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Mouse TIMP-1, the region of Cys27-Arg205, from gene Accession# NM_011593
Tag:	C-His
Predicted MW:	22 kDa
Concentration:	lot specific
Purity:	>90%, as determined by Coomassie stained SDS-PAGE.
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0
Bioactivity:	Mouse TIMP-1 inhibits the activity of activated mouse MMP-9 (100 ng/mL). The IC ₅₀ = 90 ng/mL.
Endotoxin:	Less than 1.0 EU per µg of protein as determine by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_035723
Locus ID:	21857
UniProt ID:	P12032
RefSeq Size:	902
Cytogenetics:	X 16.38 cM
RefSeq ORF:	615
Synonyms:	Clgi; EPA; Timp; TIMP-1; TPA-S1



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Summary:

Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14 (By similarity). Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling. [UniProtKB/Swiss-Prot Function]

Product images: