Active Recombinant Mouse Timp1 Protein, His-tagged

Cat. No. Timp1-6436M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse tissue inhibitor of metalloproteinase 1 (Timp1), transcript variant 2 with a C-His tag was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	Cys27-Arg205
Description	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. 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.
Bio-activity	Mouse TIMP-1 inhibits the activity of activated mouse MMP-9 (100 ng/mL). The IC50 = 90 ng/mL.
Molecular Mass	22 kDa
Endotoxin	Less than 1.0 EU/μg protein as determined by the LAL method
Purity	> 90%, as determined by Coomassie stained SDS-PAGE.

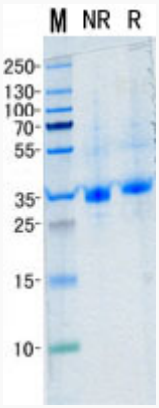
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Stability	Unopened vial can be stored between 2 and 8 centigrade for up to 2 weeks, at -20 centigrade for up to 6 months, or at -70 centigrade or below until the expiration date. Aliquots can be stored between 2 and 8 centigrade for up to one week and stored at -20 centigrade or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
Storage	Store at -80 centigrade.
Concentration	Protein formulated and vialed at >50 μg/mL in specified buffer
Storage Buffer	20 mM Tris, 150 mM NaCl, pH 8.0

GENE INFORMATION

Gene Name	Timp1 tissue inhibitor of metalloproteinase 1 [Mus musculus (house mouse)]
Official Symbol	Timp1
Synonyms	TIMP1; tissue inhibitor of metalloproteinase 1; metalloproteinase inhibitor 1; EPA; TPA-S1; TPA-induced protein; erythroid-potentiating activity; collagenase inhibitor 16C8 fibroblast; tissue inhibitor of metalloproteinase-1; tissue inhibitor of metalloproteinases 1; Clgi; Timp; TIMP-1; MGC7143
Gene ID	21857
mRNA Refseq	NM_011593
Protein Refseq	NP_035723
UniProt ID	P12032

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SDS-PAGE	

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