

Metalloproteinase inhibitor 1 Recombinant Protein | Timp1 recombinant protein

Recombinant Mouse Metalloproteinase inhibitor 1

CATALOG # AAA113729	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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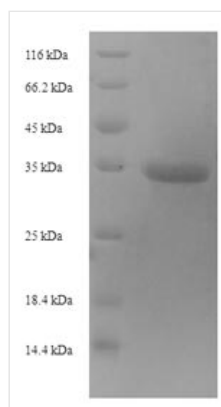
PRODUCT SYNONYMS

Metalloproteinase inhibitor 1; Recombinant Mouse Metalloproteinase inhibitor 1; Collagenase inhibitor 16C8 fibroblast; Erythroid-potentiating activity; EPA; TPA-S1; TPA-induced protein; Tissue inhibitor of metalloproteinases 1; TIMP-1; Timp1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	25-205aa; Full Length
Sequence	CSCAPPHPQT AFCNSDLVIR AKFMGSPEIN ETTLYQRYKI KMTKMLKGFK AVGNAADIRY AYTPVMESLC GYAHKSQNRS EEFLITGRLR NGNLHISACS FLVPWRTLSP AQQRAFSKTY SAGCGVCTVF PCLSIPCKLE SDTHCLWTDQ VLVGSEDYQS RHFACLPRNP GLCTWRSLGA R
Sequence Length	205
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Timp1 recombinant protein	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. 1 Publication
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References	Characterization and expression of a murine gene homologous to human EPA/TIMP a virus-induced gene in the mouse. Gewert D.R., Coulombe B., Castolino M., Skup D., Williams B.R.G. EMBO J. 6:651-657(1987) A growth-responsive gene (16C8) in normal mouse fibroblasts homologous to a human collagenase inhibitor with erythroid-potentiating activity evidence for inducible and constitutive transcripts. Edwards D.R., Waterhouse P., Holman M.L., Denhardt D.T. Nucleic Acids Res. 14:8863-8878(1986) Molecular cloning of gene sequences regulated by tumor promoters and mitogens through protein kinase C. Johnson M.D., Housey G.M., Kirschmeier P.T., Weinstein I.B. Mol. Cell. Biol. 7:2821-2829(1987) Genes for extracellular-matrix-degrading metalloproteinases and their inhibitor, TIMP, are expressed during early mammalian development. Brenner C.A., Adler R.R., Rappolee D.A., Pedersen R.A., Werb Z. Genes Dev. 3:848-859(1989) Molecular cloning of partial cDNA copies of two distinct mouse IFN-beta mRNAs. Skup D., Windass J.D., Sor F.S., George H., Williams B.R., Fukuhara H., de Maeyer-Guignard J., de Maeyer E. Nucleic Acids Res. 10:3069-3084(1982) Timp1 interacts with beta-1 integrin and CD63 along melanoma genesis and confers anoikis resistance by activating PI3-K signaling pathway independently of Akt phosphorylation. Toricelli M., Melo F.H., Peres G.B., Silva D.C., Jasiulonis M.G. Mol. Cancer 12:22-22(2013)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	113205063
NCBI GeneID	21857
NCBI Accession #	NP_001037849.1
NCBI GenBank Nucleotide #	NM_001044384.1
UniProt Accession #	P12032 ; P20064 ; Q61720
Molecular Weight	36.2 kDa
NCBI Official Full Name	metalloproteinase inhibitor 1 isoform a
NCBI Official Synonym Full Names	tissue inhibitor of metalloproteinase 1
NCBI Official Symbol	Timp1
NCBI Official Synonym Symbols	EPA; Clgi; Timp; TIMP-1; TPA-S1
NCBI Protein Information	metalloproteinase inhibitor 1
UniProt Protein Name	Metalloproteinase inhibitor 1
UniProt Gene Name	Timp1
UniProt Synonym Gene Names	Timp; Timp-1; EPA; TIMP-1
UniProt Entry Name	TIMP1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/timp1-recombinant-protein-e-coli/113729>