Metalloproteinase Inhibitor 2 (TIMP2) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Metalloproteinase inhibitor 2 (Timp2), Recombinant Protein
Full Product Name	Recombinant Rat Metalloproteinase inhibitor 2 (Timp2)
Product Gene Name	Timp2 recombinant protein
Sequence	CSCSPVHPQQ AFCNADVVIR AKAVSEKEVD SGNDIYGNPI KRIQYEIKQI KMFKGPDKDI EFIYTAPSSA VCGVSLDVGG KKEYLIAGKA EGDGKMHITL CDFIVPWDTL SITQKKSLNH RYQMGCECKI TRCPMIPCYI SSPDECLWMD WVTEKSINGH QAKFFACIKR SDGSCAWYRG AAPPKQEFLD IEDP
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	24,356 Da
Sequence Positions	27-220aa, Full Length of Mature Protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P30121
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Timp2 recombinant protein	This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix.
Other Notes	Small volumes of Timp2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Timp2 purchase	MBS1157845 is a recombinant protein targeting Timp2. Also known as Recombinant Rat Metalloproteinase inhibitor 2 (Timp2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Timp2. It may not necessarily be applicable to this product.

NCBI GI #	11464979
NCBI GeneID	29543
NCBI Accession #	NP_068824.1

UniProt Primary Accession #	P30121
UniProt Secondary Accession #	Q546J4
UniProt Related Accession #	P30121
GenBank Nucleotide #	NM_021989.2
NCBI Official Full Name	metalloproteinase inhibitor 2
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 2
NCBI Official Symbol	Timp2
UniProt Protein Name	Metalloproteinase inhibitor 2
UniProt Synonym Protein Names	Tissue inhibitor of metalloproteinases 2; TIMP-2
Protein Family	Metalloproteinase inhibitor
UniProt Gene Name	Timp2
UniProt Synonym Gene Names	Timp-2; TIMP-2
NCBI Protein Information	metalloproteinase inhibitor 2
NCBI Summary for Timp2	acts as an inhibitor of metallopeptidase activity; may play a role in tissue remodeling during spermatogenesis [RGD, Feb 2006]
UniProt Comments for Timp2	Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor.
Research Articles on Timp2	**1.** These findings suggested that artesunate attenuates alveolitis and pulmonary fibrosis by regulating expression of collagen-IV, TIMP-1 and 2, as well as MMP-2 and -9, to reduce ECM accumulation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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