Metalloproteinase Inhibitor 2 (TIMP2) Dog Recombinant Protein

PRODUCT OVERVIEW

Product Name	Metalloproteinase inhibitor 2 (TIMP2), Recombinant Protein
Full Product Name	Recombinant Dog Metalloproteinase inhibitor 2 (TIMP2)
Product Gene Name	TIMP2 recombinant protein
Product Synonym Gene Name	TIMP2
Sequence	CSCSPVHPQQ AFCNADVVIR AKAVSVKEVD SGNDIYGNPI KRIQYEIKQI KMFKGPDKDI EFIYTAPSSA VCGVSLDIGG KKEYLIAGKA EGNGKMHITL CDFIVPWDTL SSTQKKSLNH 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	24,297 Da
Sequence Positions	27-220, Full length 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 Q9TTY1
Species	Canis familiaris (Dog) (Canis lupus familiaris)
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	MBS1417980 is a recombinant protein targeting TIMP2. Also known as Recombinant Dog 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 #	50978760
NCBI GeneID	403633

NCBI Accession #	NP_001003082.1
UniProt Primary Accession #	Q9TTY1
UniProt Secondary Accession #	O77804; Q9TTE9
UniProt Related Accession #	Q9TTY1
GenBank Nucleotide #	NM_001003082.1
NCBI Official Full Name	metalloproteinase 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
NCBI Protein Information	metalloproteinase inhibitor 2
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.** Suggest cryoplasty increases the expression of TIMP-2 and decreases the expression of MMP-2, thereby inhibiting vascular hyperplasia and collagen fibers synthesis in the stenotic vessels.
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