TIMP2 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	TIMP2, Lysate
Full Product Name	Human TIMP2 Protein Lysate
Product Gene Name	TIMP2 lysate
Product Synonym Names	TIMP2; CSC-21K; DDC8
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C This protein lysate can be reconsituted using SDS Sample Buffer. Once reconsituted, aliquot and store any remaining material at -20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	26.1 kDa (232aa), confirmed by MALDI-TOF
3D Structure	ModBase 3D Structure for P16035
Species	Human
Related Product Information for TIMP2 lysate	Human TIMP2 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells.
Other Notes	Small volumes of TIMP2 lysate 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	MBS8428570 is a lysate targeting TIMP2. Also known as Human TIMP2 Protein Lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIMP2. It may not necessarily be applicable to this product.

NCBI GI #	4507511
NCBI GeneID	7077
NCBI Accession #	NP_003246
UniProt Primary Accession #	P16035
UniProt Secondary Accession #	Q16121; Q93006; Q9UDF7
UniProt Related Accession #	P16035
GenBank Nucleotide #	NM_003255
NCBI Official Full Name	metalloproteinase inhibitor 2
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 2
NCBI Official Symbol	TIMP2
NCBI Official Synonym Symbols	DDC8; CSC-21K
Protein Family	Metalloproteinase inhibitor
NCBI Protein Information	metalloproteinase inhibitor 2

NCBI Summary for TIMP2	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. [provided by RefSeq, Jul 2008]
Research Articles on TIMP2	**1.** study results suggest an association between matrix metalloproteinase 2, matrix metalloproteinase 9 and tissue inhibitor of metalloproteinase 2 single nucleotide polymorphisms with sperm parameters, but not infertility
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