

Recombinant Human TIMP2 Protein, His-tagged

Cat. No. TIMP2-37H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TIMP2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	TIMP2, also known as metalloproteinase inhibitor 2, belongs to the tissue inhibitors of metalloproteinases family. The TIMP family inhibit most MMPs by forming non-covalent binary complex. TIMP2 plays a unique role among TIMP family members owing to its functions to regulate cellular responses to growth factors.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	22.5kDa (200aa)18-28KDa (SDS-PAGE under reducing conditions.)
AA Sequence	CSCSPVHPQQ AFCNADVIR AKAVSEKEVD SGNDIYGNPI KRIQYEIKQI KMFKGPEKDI EFIYTAPSSA VCGVSLDVGG KKEYLIAGKAEGDGKMHITL CDFIVPWDTL STTQKKSLNH RYQMGCECKI TRCPMIPCYI SSPDECLWMD WVTEKNINGH QAKFFACIKR SDGSCAWYRGAAPPKQEFLD IEDPHHHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>95% by SDS – PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	TIMP2 TIMP metalloproteinase inhibitor 2 [Homo sapiens]
Official Symbol	TIMP2
Synonyms	TIMP2; TIMP metalloproteinase inhibitor 2; tissue inhibitor of metalloproteinase 2; metalloproteinase inhibitor 2; CSC 21K; TIMP-2; tissue inhibitor of metalloproteinases 2; CSC-21K;
Gene ID	7077
mRNA Refseq	NM_003255
Protein Refseq	NP_003246
MIM	188825
UniProt ID	P16035
Chromosome Location	17q25
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix

organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;

Function

enzyme activator activity; enzyme inhibitor activity; integrin binding; metal ion binding; metalloendopeptidase inhibitor activity;

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