

Active Recombinant Human TIMP2, MIgG2a Fc-tagged

Cat. No. TIMP2-001H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human TIMP2(AAH52605.1)(Cys27-Pro220) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	27-220 a.a.
Description	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.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by its ability to induce alkaline phosphatase production .
Molecular Mass	48KDa (monomer)

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AA Sequence	Cys27-Pro220
Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="" test="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

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

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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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