

Active Recombinant Human TIMP3, MlgG2a Fc-tagged

Cat. No. TIMP3-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human TIMP3(AAH14277.1)(Cys24-Pro211) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	24-211 a.a.
Description	This gene belongs to the TIMP gene family. The proteins encoded by this gene family are inhibitors of the matrixmetalloproteinases, a group of peptidases involved in degradation of the extracellular matrix (ECM). Expression of this gene is induced in response to mitogenic stimulation and this netrin domain-containing protein is localized to the ECM. Mutations in this gene have been associated with the autosomal dominant disorder Sorsby fundus dystrophy.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by its ability to induce alkaline phosphatase production .
Molecular Mass	48KDa (monomer)
AA Sequence	Cys24-Pro211
Endotoxin	<0.06 eu/µg as determined by LAL test.>

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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	TIMP3 TIMP metalloproteinase inhibitor 3 [Homo sapiens]
Official Symbol	TIMP3
Synonyms	TIMP3; TIMP metalloproteinase inhibitor 3; SFD, tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory); metalloproteinase inhibitor 3; TIMP-3; MIG-5 protein; protein MIG-5; tissue inhibitor of metalloproteinases 3; SFD; K222; K222TA2; HSMRK222;
Gene ID	7078
mRNA Refseq	NM_000362
Protein Refseq	NP_000353
MIM	188826
UniProt ID	P35625
Chromosome	22q12.3

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Location	
Pathway	Endochondral Ossification, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;
Function	enzyme inhibitor activity; metal ion binding; metalloendopeptidase inhibitor activity; protein binding;

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