

Active Recombinant Full Length Human TIMP4 Protein

Cat. No. TIMP4-10HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Full Length Human TIMP4 Protein was expressed in insect cells.
Species	Human
Source	Insect Cells
ProteinLength	30-224 aa
Description	This gene belongs to the TIMP gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. The secreted, netrin domain-containing protein encoded by this gene is involved in regulation of platelet aggregation and recruitment and may play role in hormonal regulation and endometrial tissue remodeling.
Form	Lyophilized from a 0.2 µm filtered solution in Tris and NaCl.
Bio-activity	Measured by its ability to inhibit human MMP-2 cleavage of a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH ₂ . The IC ₅₀ value is approximately 2.5 nM.
Molecular Mass	22 kDa
Endotoxin	< 1.0 EU/µg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

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Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Shipping	The product is shipped with polar packs.
Reconstitution	Reconstitute at 200 µg/mL in sterile, deionized water.
N-terminal Sequence Analysis	Cys30

GENE INFORMATION

Gene Name	TIMP4 TIMP metalloproteinase inhibitor 4 [Homo sapiens (human)]
Official Symbol	TIMP4
Synonyms	TIMP4; TIMP metalloproteinase inhibitor 4; tissue inhibitor of metalloproteinase 4; metalloproteinase inhibitor 4; TIMP-4; tissue inhibitor of metalloproteinases 4;
Gene ID	7079
mRNA Refseq	NM_003256
Protein Refseq	NP_003247
MIM	601915
UniProt ID	Q99727

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