

TIMP-1 active protein

Active Recombinant Human TIMP-1 Protein

CATALOG #
AAA282465

HOST
HEK293 cells

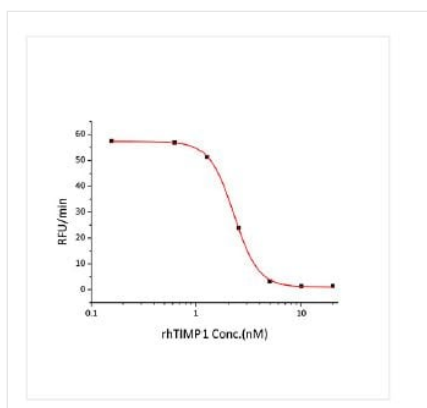
PRODUCT SYNONYMS

TIMP-1; Active Recombinant Human TIMP-1 Protein; CLGI; EPA; EPO; HCI; TIMP; TIMP1; TIMP-1 active protein

PRODUCT SPECIFICATIONS

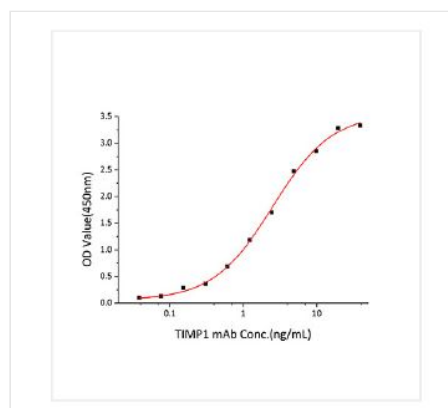
Host	HEK293 cells
Purity/Purification	> 95% by SDS-PAGE.
Form/Format	Liquid Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Species	Human
Endotoxin	< 1 EU/ug of the protein by LAL method.
Tag	C-His
Bioactivity	1. Measured by its binding ability in a functional ELISA. Immobilized Human TIMP1 Protein at 1 ug/mL (100 uL/well) can bind TIMP1 Rabbit mAb with a linear range of 0.038-2.5 ng/mL. 2. Measured by its ability to inhibit human MMP-2 cleavage of a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH2. The IC50 value is approximately 2.2 nM.
Preparation and Storage	Store the lyophilized protein at -20 to -80 degree C for 12 months. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week. Avoid repeated freeze/thaw cycles. Ship: Ice Pack

IMAGES



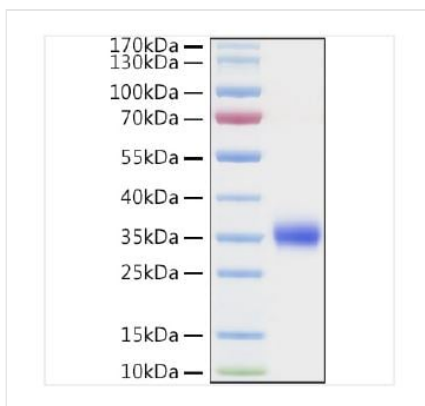
Application Data

Recombinant Human TIMP-1 inhibit human MMP-2 cleavage of a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH2. The IC50 value is approximately 2.2 nM.



Application Data

Immobilized recombinant Human TIMP1 Protein at 1ug/mL (100 uL/well) can bind TIMP1 Rabbit mAb with a linear range of 0.038-2.5ng/mL.



SDS-PAGE

Recombinant Human TIMP-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 34-35 kDa.

ADDITIONAL INFORMATION

Related Product Information for TIMP-1 active protein	Active Recombinant Human TIMP-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys24-Ala207) of human TIMP-1/CLGI (Accession #NP_003245.1) fused with 6×His tag at the C-terminus.
Product Categories/Family for TIMP-1 active protein	Other Recombinant Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507509
NCBI GeneID	7076
NCBI Accession #	NP_003245.1
NCBI GenBank Nucleotide #	NM_003254.2
UniProt Accession #	P01033 ; Q14252 ; Q9UCU1
Molecular Weight	23,171 Da
NCBI Official Full Name	metalloproteinase inhibitor 1
NCBI Official Synonym Full Names	TIMP metalloproteinase inhibitor 1
NCBI Official Symbol	TIMP1
NCBI Official Synonym Symbols	EPA; EPO; HCI; CLGI; TIMP
NCBI Protein Information	metalloproteinase inhibitor 1; TIMP-1; collagenase inhibitor; erythroid potentiating activity; erythroid-potentiating activity; fibroblast collagenase inhibitor; tissue inhibitor of metalloproteinases 1
UniProt Protein Name	Metalloproteinase inhibitor 1
UniProt Gene Name	TIMP1
UniProt Synonym Gene Names	CLGI; TIMP; EPA; Collagenase inhibitor; TIMP-1
UniProt Entry Name	TIMP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.