

Active Recombinant Human Full Length TIMP2 Protein

Cat. No. TIMP2-5141H Lot. No. (See product label)

SPECIFICATION

Product Overview	TIMP-2 Protein, Human (HEK293) is the recombinant human-derived TIMP-2 protein, expressed by HEK293
Species	Human
Source	HEK293
ProteinLength	27-220 aa
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 a 0.22 µm filtered solution of PBS, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween 80.
Bio-activity	Measured by its ability to inhibit human MMP-2 cleavage of a fluorogenic peptide substrate MCA-PLGL-DPA-AR-NH2 and the IC50 value is < 4 nM.

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Molecular Mass	20 kDa
AASequence	CSCSPVHPQQAFNCNADVIRAKAVSEKEVDSGNDIYGNPIKRIQYEIKQIKMFKGPEK DIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDGKMHITLCDFIVPWDTLSTTQKK SLNHRYPQMGCECKITRCPMIPCYISSPDECLWMDWVTEKNINGHQAKFFACIKRSD GSCAWYRGAAPPKQEFLDIEDP
Endotoxin	<1 EU/μg determined by LAL method.
Purity	Greater than 95% as determined by reducing SDS-PAGE
Storage	Stored at -20 centigrade for 2 years from date of receipt. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.

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

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mRNA Refseq	NM_003255
Protein Refseq	NP_003246
MIM	188825
UniProt ID	P16035

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