

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	20 kDa
AASequence	CSCSPVHPQQAF CNADVIRAKAVSEKEVDSGNDIYGNPIKRIQYEIKQIKMFKGPEK DIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDGKMHITLCD FIVP WDTLSTTQKK SLNHR YQMGCECKITRCPMIPCYISSPDECLWMDWVTEKNINGHQAKFFACIKRSD 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



mRNA Refseq	NM_003255
Protein Refseq	NP_003246
MIM	188825
UniProt ID	P16035

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA