

Active Recombinant Human TIMP2 Protein

Cat. No. TIMP2-2529H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TIMP-2 Protein (Cys27-Pro220) was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
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 0.2 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 2.2 nM
Molecular Mass	21 kDa

 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

Endotoxin	< 1 EU/μg by LAL
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Applications	Inhibition Activity
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.
Reconstitution	Reconstitute at 100 μg/mL in sterile 50 mM Tris, 10 mM CaCl ₂ , 150 mM NaCl, and 0.05% Brij-35, pH 7.5.

GENE INFORMATION

Gene Name	TIMP2 TIMP metalloproteinase inhibitor 2 [Homo sapiens (human)]
Official Symbol	TIMP2
Synonyms	TIMP2; TIMP metalloproteinase inhibitor 2; DDC8; CSC-21K; metalloproteinase inhibitor 2; testicular secretory protein Li 57; tissue inhibitor of metalloproteinases 2
Gene ID	7077
mRNA Refseq	NM_003255
Protein Refseq	NP_003246
MIM	188825
UniProt ID	P16035

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