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Recombinant Human TIMP-2
Catalog # PBG10449

Specification

Recombinant Human TIMP-2 - Product Information

Recombinant Human TIMP-2 - Additional Information

Description
TIMP-2 is an extracellular inhibitor of MMPs including MMP1, 2, 3, 7, 8, 9, 10, 12, 13, 14, 15, 16 and 19. It belongs to the I35 (TIMP) family of irreversible protease inhibitors that function as key modulators of extracellular matrix degradation during tissue development and remodeling. TIMP-2 can also act through an MMP-independent mechanism inhibiting endothelial cell proliferation in vitro and demonstrates anti-angiogenic activities in vivo. Recombinant human TIMP-2 is a 21.8 kDa protein containing 194 amino acid residues.

BiologicalActivity
TIMP-2 activity was measured by its ability to inhibit human MMP-1 induced hydrolysis of a chromogenic peptide substrate at room temperature. Half maximal inhibition was obtained at a TIMP-2 concentration of approximately 0.5 µg/ml, when using an MMP-1 concentration of 1.6 µg/ml.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Recombinant Human TIMP-2 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human TIMP-2 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

- Flow Cytomety
- Cell Culture

Recombinant Human TIMP-2 - Images