

Recombinant Human TIMP Metallopeptidase Inhibitor 2

Cat. No. TIMP2-2887H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TIMP2 is expressed in Sf9 cells. TIMP-2 shows a protein band with a molecular weight of 21-kDa (nonreduced) or 24-kDa (reduced) on SDS-polyacrylamide gel electrophoresis.
Species	Human
Source	Sf9 Cells
Description	<p>The tissue Inhibitor of Metalloproteinases (TIMP) belongs to a family which takes part in the activation and regulation of the MMP-activity: TIMP-1, a 28-kDa glycoprotein; TIMP-2, a 21-kDa glycoprotein and the N-glycosylated TIMP-3 (27-kDa, reduced SDS-PAGE). TIMP-4 is thought to function in a tissue-specific fashion in the ECM hemostasis. These proteins are expressed in a variety of cell types and form with latent as well as with active MMPs non-covalent, stoichiometric complexes.</p> <p>Progelatinase B and the activated gelatinase B specifically bind TIMP-1 via their C-terminal domain. Purified TIMP-2 inhibits the activities of stromelysin 1 (MMP-3), matrilysin (MMP-7), gelatinase A (MMP-2) and the interstitial collagenase (MMP-1). On the MMP-2 the TIMP displays two distinct binding sites.</p>
Form	Liquid, in 50 mM Tris-HCl, pH 7; 200 mM NaCl, 5 mM CaCl ₂ , 1 μM ZnCl ₂ , 0.05% Brij 35, 0.05% NaN ₃ .
Purity	homogenous by electrophoresis and western blotting analysis.
Specific Activity	It is recommended to perform a pre-incubation of about 20 min 37°C which allows the

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formation of the enzyme-inhibitor complex.

Stability And Storage

The protein can be kept stored at -70°C for month, at -20°C for several weeks and at 4°C for 1 week without significant loss of inhibitory activity. Repeated freezing and thawing must be avoided.

GENE INFORMATION

Gene Name

TIMP2 TIMP metallopeptidase inhibitor 2 [Homo sapiens]

Synonyms

TIMP2; TIMP metallopeptidase inhibitor 2; CSC-21K; tissue inhibitor of metalloproteinase 2; tissue inhibitor of metalloproteinases 2; TIMP-2

Gene ID

7077

mRNA Refseq

NM_003255

Protein Refseq

NP_003246

MIM

188825

UniProt ID

P16035

Chromosome Location

17q25

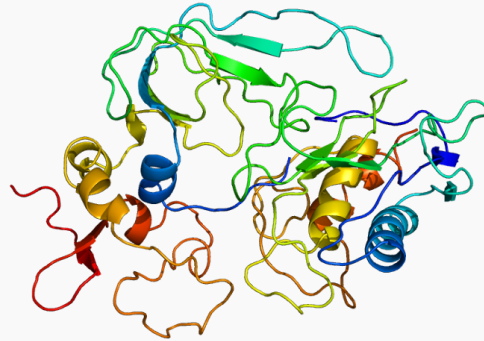
Function

enzyme activator activity; enzyme inhibitor activity; integrin binding; metalloendopeptidase inhibitor activity; protein binding

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