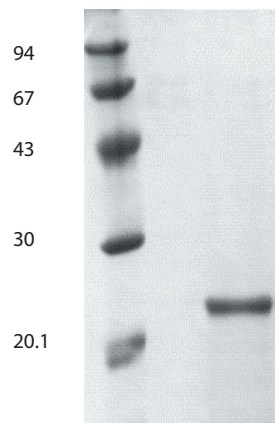


**INTRODUCTION**

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 (Gomez et al., 1997). These proteins are expressed in a variety of cell types and form with latent as well as with active MMPs non-covalent, stoichiometric complexes. Progelatinase B and the activated gelatinase B specifically bind TIMP-1 via their C-terminal domain. Purified TIMP-2 (Stettler-Stevenson et al. 1992) inhibits the activities of stromelysin 1 (MMP-3), matrilysin (MMP-7), gelatinase A (MMP-2) and the interstitial collagenase (MMP-1) (Umenishi et al. 1991). On the MMP-2 the TIMP displays two distinct binding sites (Howard and Banda, 1991). TIMP-2 shows a protein band with a molecular weight of 21- kDa (nonreduced) or 24-kDa (reduced) on SDS-polyacrylamide gel electrophoresis.



**PURIFIED PROTEIN**

Human tissue inhibitor of matrix metalloproteinases expressed in Sf9 cells.

**PRESENTATION**

Liquid, in 50 mM Tris-HCl, pH 7; 200 mM NaCl; 5 mM CaCl<sub>2</sub>; 1 μM ZnCl<sub>2</sub>; 0.05% Brij 35; 0,05% NaN<sub>3</sub>

**CONCENTRATION**

200 μg/mL

*For research use only.*



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<b>PURITY</b>	Homogenous by electrophoresis and western blotting analysis.
<b>ACTIVITY</b>	It is recommended to perform a preincubation of about 20 min / 37°C which allows the formation of the enzyme-inhibitor complex.
<b>CONTAMINANTS</b>	No contaminants are detectable
<b>STABILITY &amp; STORAGE</b>	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.
<b>REFERENCES</b>	<ul style="list-style-type: none"> <li>• Umenishi F et al. (1991) J. Biochem. Tokyo 110: 189-195.</li> <li>• Howard EW &amp; Banda MJ (1991) J. Biol. Chem. 266: 17972-17927.</li> <li>• Miyazaki K et al (1993) J. Biol. Chem 268: 14387-14393.</li> <li>• Stettler-Stevenson WG et al. (1992) Matrix Suppl. 1992, 1: 299-306.</li> <li>• Gomez DE et al. (1997) Eur J Cell Biol., 74: 11-122.</li> </ul>