

## TIMP-4 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P71368
<b>Synonyms:</b>	Metalloproteinase inhibitor 4; TIMP-4; Tissue inhibitor of metalloproteinases 4; TIMP4
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q99727 (C30-P224)
<b>Gene ID:</b>	7079
<b>Molecular Weight:</b>	Approximately 24.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>C S C A P A H P Q Q    H I C H S A L V I R    A K I S S E K V V P    A S A D P A D T E K</p> <p>M L R Y E I K Q I K    M F K G F E K V K D    V Q Y I Y T P F D S    S L C G V K L E A N</p> <p>S Q K Q Y L L T G Q    V L S D G K V F I H    L C N Y I E P W E D    L S L V Q R E S L N</p> <p>H H Y H L N C G C Q    I T T C Y T V P C T    I S A P N E C L W T    D W L L E R K L Y G</p> <p>Y Q A Q H Y V C M K    H V D G T C S W Y R    G H L P L R K E F V    D I V Q P</p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Tissue inhibitor of metalloproteinases-4 (TIMP-4) is a protein that forms complexes with metalloproteinases, including collagenases, leading to their irreversible inactivation through binding to their catalytic zinc cofactor. TIMP-4 exhibits broad-spectrum inhibitory activity, known to act on various matrix metalloproteinases (MMPs) such as MMP-1, MMP-2, MMP-3, MMP-7, and MMP-9. By regulating the activity of these MMPs, TIMP-4 plays a crucial role in modulating extracellular matrix remodeling, thereby influencing processes like tissue development, maintenance, and repair. The ability of TIMP-4 to interact with and inhibit multiple MMPs highlights its importance in maintaining the balance of proteolytic activities and underscores its potential significance in various physiological and pathological contexts. (</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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