

TIMP-2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71137
Synonyms:	TIMP-2; CSC-21Ktissue inhibitor of metalloproteinase 2; metalloproteinase inhibitor 2; TIMP metalloproteinase inhibitor 2; Tissue inhibitor of metalloproteinase 2.
Species:	Mouse
Source:	HEK293
Accession:	P25785 (C27-P220)
Gene ID:	21858
Molecular Weight:	21-23 kDa

PROPERTIES

AA Sequence	<p>C S C S P V H P Q Q A F C N A D V V I R A K A V S E K E V D S G N D I Y G N P I</p> <p>K R I Q Y E I K Q I K M F K G P D K D I E F I Y T A P S S A V C G V S L D V G G</p> <p>K K E Y L I A G K A E G D G K M H I T L C D F I V P W D T L S I T Q K K S L N H</p> <p>R Y Q M G C E C K I T R C P M I P C Y I S S P D E C L W M D W V T E K S I N G H</p> <p>Q A K F F A C I K R S D G S C A W Y R G A A P P K Q E F L D I E D P</p>
Biological 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 is 4.79 nM, as measured under the described conditions.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	Tissue inhibitor of metalloproteinases-2 (TIMP-2) is a protein that forms complexes with metalloproteinases, including collagenases, leading to the irreversible inactivation of these enzymes by binding to their catalytic zinc cofactor. Notably, TIMP-2 exhibits a specific interaction with matrix metalloproteinase 2 (MMP2) through its C-terminal region. This interaction, particularly with the C-terminal PEX domain of MMP2, results in the inhibition of MMP2 activity. TIMP-2's ability to regulate metalloproteinases underscores its significance in controlling extracellular matrix remodeling, with implications for various
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physiological and pathological processes. (

Caution: Product has not been fully validated for medical applications. For research use only.

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