TIMP-2 Protein, Mouse (HEK293, C-His)

Cat. No.:	HY-P71137A
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:	Approximately 21.41 kDa

PROPERTIES

AA Sequence	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 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 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 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 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
Biological Activity	Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED_{50} this effect is 34.88 ng/mL, corresponding to a specific activity is 2.87×10^4 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

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 physiological and pathological processes. (

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