
Product Data Sheet

Product Name: TIMP2 Human, Sf9
 Cat. No.: GP22304
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TIMPMetallopeptidase Inhibitor 2; Tissue Inhibitor Of Metalloproteinases 2; CSC-21K;Tissue Inhibitor Of Metalloproteinase 2; TIMP-2; DDC8; Metalloproteinaseinhibitor 2.		
Amino Acid Sequence	CSCSPVHPQQ AFCNADVIR AKAVSEKEVD SGNDIYGNPI KRIQYEIKQIKMFKGPEKDI EFIYTAPSSA VCGVSLDVGG KKEYLIAGKA EGDGKMHITL CDFIVPWDTL STTQKKSLNHRYQMGCECKI TRCPMIPCYI SSPDECLWMD WVTEKNINGH QAKFFACIKR SDGSCAWYRGAAPPKQFLD IEDPHHHHHH.		
Formulation	TIMP2 protein solution (0.25mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

TIMP2 belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases that take part in degradation of the extracellular matrix. Besides having an inhibitory role against metalloproteinases, the encoded protein has a exclusive part among TIMP family members in its capability to directly suppress the proliferation of endothelial cells. Consequently, the encoded protein is crucial to the conservation of tissue homeostasis by suppressing the production of quiescent tissues as an answer to angiogenic factors, and by inhibiting protease activity in tissues undergoing renovation of the extracellular matrix.

Stability

Store at 4°C if entire vial will be used within 2-4weeks.Store, frozen at -20°C for longer periods of time.For long term storage it is recommended to add a carrierprotein (0.1%

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

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HSA or BSA).

Background

TIMP2 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 200 amino acids (27-220 a.a.) and having a molecular mass of 22.5 kDa. (Molecular size on SDS-PAGE will appear at approximately 18-28 kDa). TIMP2 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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