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## Product Data Sheet

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Product Name: TIMP2 Human, His  
 Cat. No.: GP22301  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TIMP metalloproteinase inhibitor 2; metalloproteinase inhibitor 2; Tissue inhibitor of metalloproteinases 2; TIMP-2; CSC-21K.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHM CS CSPVHPQAF CNADVIRAK AVSEKEVDSG NDIYGNPIKR IQYEIKQIKM FKGPEKDIEF IYTAPSSAVC GVSLDVGKK EYLIAGKAEG DGKMHITLCD FIVPWTLSL TQKKSLNHRY QMGCECKITR CPMIPCYISS PDECLWMDWV TEKNINGHQA KFFACIKRSD GSCAWYRGAA PPKQEFLDIE DP		
Formulation	The TIMP2 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT 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 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

TIMP2 Human Recombinant produced in E. coli is a single polypeptide chain containing 232 amino acids (27-220) and having a molecular mass of 26.1 kDa. TIMP2 is fused to a 38 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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