
Product Data Sheet

Product Name: TIMP2 Human
 Cat. No.: GP22302
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fibroblast growth factor 17; FGF-17; FGF17; FGF-13; HH20.		
Amino Acid Sequence	CSCSPVHPQQ AFCNADVIR AKAVSEKEVD SGNDIYGNPI KRIQYEIKQI KMFKGPEKDI EFIYTAPSSA VCGVSLDVGG KKEYLIAGKA EGDGKMHITL CDFIVPWDTL STTQKKSLNH RYQMGCECKI TRCPMIPCYI SSPDECLWMD WVTEKNINGH QAKFFACIKR SDGSCAWYRG AAPPKQEFLL IEDP		
Solubility	It is recommended to reconstitute the lyophilized TIMP2 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	TIMP2 protein was lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4, with 3 % trehalose.		

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 an 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.

Biological Activity

Fully biologically active when compared to standard. The biologically active as

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determined by its ability to inhibit human MMP-2 cleavage of a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH₂.

Stability

Lyophilized TIMP2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TIMP2 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Background

TIMP2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 194 amino acids and having a molecular mass of 21.8kDa.

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