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**Product Data Sheet**

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Product Name: TIMP2 Human HEK  
Cat. No.: GP22303  
Batch No.: 1

**Product Data**

Purity	>98%	Source	HEK293 Cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	TIMP metalloproteinase inhibitor 2; CSC-21K; tissue inhibitor of metalloproteinase 2; TIMP-2; metalloproteinase inhibitor 2.		
Solubility	It is recommended to reconstitute the lyophilized TIMP2 in sterile assay buffer (50mM Tris, 10mM CaCl <sub>2</sub> , 150mM NaCl, 0.05% Brij-35, PH 7.5) not less than 100µg/ml.		
Formulation	The TIMP2 protein was lyophilized after extensive dialysis against PBS.		

**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**

The IC<sub>50</sub> of 3 nM is measured by its ability to inhibit recombinant human MMP-2 cleavage of the colorimetric peptide substrate, Mca-PLGL-DpaAR-NH<sub>2</sub>.

**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

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

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days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

TIMP2 Human Recombinant produced in HEK-293 cells is a secreted protein with the sequence of Human TIMP-2 (amino acids Cys27-Pro220) and is fused to a polyhistidine tag at the C-terminus.

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