

## Product datasheet for **TP723448**

### **TIMP2 (NM\_003255) Human Recombinant Protein**

#### **Product data:**

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| <b>Product Type:</b>                         | Recombinant Proteins   |
| <b>Description:</b>                          | Purified recombinant protein of Human TIMP metallopeptidase inhibitor 2 (TIMP2).   |
| <b>Species:</b>                              | Human  |
| <b>Expression Host:</b>                      | E. coli  |
| <b>Expression cDNA Clone or AA Sequence:</b> | CSCSPVHPQQ AFCNADVIR AKAVSEKEVD SGNDIYGNPI KRIQYEIKQI KMFKGPEKDI EFIYTAPSSA VCGVSLDVGG KKEYLIAGKA EGDGKMHITL CDFIVPWDTL STTQKSLNH RYQMGCECKI TRCPMIPCYI SSPDECLWMD WVTEKNINGH QAKFFACIKR SDGSCAWYRG AAPPKQEFLD IEDP  |
| <b>Tag:</b>                                  | Tag Free   |
| <b>Predicted MW:</b>                         | 21.8 kDa   |
| <b>Concentration:</b>                        | lot specific   |
| <b>Purity:</b>                               | >95% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Buffer:</b>                               | Lyophilized from a 0.2 $\mu$ M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2  |
| <b>Bioactivity:</b>                          | TIMP-2 activity was measured by its ability to inhibit human MMP-1 induced hydrolysis of a chromogenic peptide substrate at room temperature. Half maximal inhibition was obtained at a TIMP-2 concentration of approximately 0.5 $\mu$ g/mL, when using an MMP-1 concentration of 1.6 $\mu$ g/mL. |
| <b>Endotoxin:</b>                            | Endotoxin level is < 0.1 ng/ $\mu$ g of protein (< 1 EU/ $\mu$ g)  |
| <b>Storage:</b>                              | Store at -80°C.  |
| <b>Stability:</b>                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.  |
| <b>RefSeq:</b>                               | <a href="#">NP_003246</a>  |
| <b>Locus ID:</b>                             | 7077   |
| <b>UniProt ID:</b>                           | <a href="#">P16035</a> , <a href="#">A0A140VK57</a>  |
| <b>RefSeq Size:</b>                          | 3670   |
| <b>Cytogenetics:</b>                         | 17q25.3  |
| <b>RefSeq ORF:</b>                           | 660  |
| <b>Synonyms:</b>                             | CSC-21K; DDC8  |



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**Summary:**

This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Secreted Protein

**Product images:**