

## Product datasheet for **TP723886**

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

#### **Product data:**

<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>	HEK293
<b>Expression cDNA Clone or AA Sequence:</b>	Human TIMP-2, the region of Cys27-Pro220, from gene Accession# NM_003255
<b>Tag:</b>	C-His
<b>Predicted MW:</b>	22 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>90%, as determined by Coomassie stained SDS-PAGE.
<b>Buffer:</b>	20 mM Tris, 150 mM NaCl, pH8.0
<b>Bioactivity:</b>	Human TIMP-2 inhibits the activity of activated mouse MMP-9 (100 ng/mL). The is IC50 = 34 ng/mL.
<b>Endotoxin:</b>	Less than 1.0 EU per µg of protein as determine by the LAL method
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
<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:**