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## Product Data Sheet

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Product Name: TIMP4 Human  
 Cat. No.: GP22305  
 Batch No.: 1

### Product Data

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Sf9, Baculovirus cells. |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | TIMP Metalloproteinase Inhibitor 4; Tissue Inhibitor Of Metalloproteinases 4; Tissue Inhibitor Of Metalloproteinase 4; TIMP-4; Metalloproteinase Inhibitor 4.   |                    |                         |
| Amino Acid Sequence | ADPCSCAPAH PQQHICH SAL VIRAKISSEK VVPASADPAD TEKMLRYEIK QIKMFKGF EK VKDVQYIYTP FDSSLCGVKL EANSQKQYLL TGQVLS DGKV FIHLCNYIEP WEDLSLVQRE SLNHHYHLNC GCQITTCYTV PCTISAPNEC LWTDWLLERK LYG YQAQHYV CMKHVDGTCS WYRGHLPLRK EFVDIVQPHH HHHH. |                    |                         |
| Formulation         | TIMP4 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.  |                    |                         |

### Introduction

Metalloproteinase inhibitor 4 (TIMP4) is a member of a family of secreted proteins which regulate the activation and proteolytic activity of the zinc enzymes known as matrix metalloproteinases. The four known members of this family are TIMP1, 2, 3 and 4. TIMP4 is produced by various tissues, particularly the brain, heart, ovary and skeletal muscle. Limited studies have shown that the TIMP4 protein has a tumor suppressive effect against Wilm92s tumor, exhibiting a negative correlation with glioma malignancy and is found in breast carcinoma cells.

### 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.

### Background

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

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TIMP4 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 204 amino acids (30-224 a.a.) and having a molecular mass of 23.5kDa (Molecular size on SDS-PAGE will appear at approximately 18-28kDa). TIMP4 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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