

# Recombinant Human TIMP4

**Cat. No.** TIMP4-31152TH    **Lot. No.** (See product label)

## SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>      | Recombinant full length Human TIMP4 protein purified from transfected human kidney cells.                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>           | This gene belongs to the TIMP gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. The secreted, netrin domain-containing protein encoded by this gene is involved in regulation of platelet aggregation and recruitment and may play role in hormonal regulation and endometrial tissue remodeling. |
| <b>Tissue specificity</b>    | Abundant in heart and present at low levels in many other tissues.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Form</b>                  | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>                | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage buffer</b>        | Preservative: 0.01% Sodium Azide<br>Constituents: 10mM MES, 50% Glycerol, 0.02% Brij 35, 300mM Sodium chloride, pH 5.0                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>               | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence Similarities</b> | Belongs to the protease inhibitor I35 (TIMP) family. Contains 1 NTR domain.                                                                                                                                                                                                                                                                                                                                                       |

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| Full Length                | Full L.                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>GENE INFORMATION</b>    |                                                                                                                   |
| <b>Gene Name</b>           | TIMP4 TIMP metallopeptidase inhibitor 4 [ Homo sapiens ]                                                          |
| <b>Official Symbol</b>     | TIMP4                                                                                                             |
| <b>Synonyms</b>            | TIMP4; TIMP metallopeptidase inhibitor 4; tissue inhibitor of metalloproteinase 4; metalloproteinase inhibitor 4; |
| <b>Gene ID</b>             | 7079                                                                                                              |
| <b>mRNA Refseq</b>         | NM_003256                                                                                                         |
| <b>Protein Refseq</b>      | NP_003247                                                                                                         |
| <b>MIM</b>                 | 601915                                                                                                            |
| <b>Uniprot ID</b>          | Q99727                                                                                                            |
| <b>Chromosome Location</b> | 3p25                                                                                                              |
| <b>Pathway</b>             | Matrix Metalloproteinases, organism-specific biosystem;                                                           |
| <b>Function</b>            | enzyme inhibitor activity; metal ion binding; metalloendopeptidase inhibitor activity;                            |

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