

## Active Recombinant Mouse Thbs4, His-tagged

**Cat. No.** Thbs4-120M    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b>     | Recombinant Mouse Thbs4 (Gln27-Asn963), fused with a C-terminal 6-His tag, was expressed in CHO Cells.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>               | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>        | 27-963 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>          | <p>Thrombospondin-4 is a protein that in humans is encoded by the THBS4 gene. The protein encoded by this gene belongs to the thrombospondin protein family.</p> <p>Thrombospondin family members are adhesive glycoproteins that mediate cell-to-cell and cell-to-matrix interactions. This protein forms a pentamer and can bind to heparin and calcium. Studies of the rat counterpart suggest that this protein may be involved in local signaling in the developing and adult nervous system.</p> |
| <b>Predicted N Terminal</b> | Gln27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Form</b>                 | Lyophilized from a 0.2 µm filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Bio-activity</b>         | Measured by the ability of the immobilized protein to support the adhesion of SVEC4 10 mouse vascular endothelial cells. The ED50 for this effect is typically 0.1-0.5 µg/mL.                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>       | 104.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>              | >90%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                            |
| <b>Storage</b>             | Avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution. |
| <b>Reconstitution</b>      | Reconstitute at 200 µg/mL in PBS.                                                                                                                                                                                                      |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                        |
| <b>Gene Name</b>           | Thbs4 thrombospondin 4 [ Mus musculus (house mouse) ]                                                                                                                                                                                  |
| <b>Official Symbol</b>     | Thbs4                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | Thbs4; TSP4; thrombospondin 4; thrombospondin-4                                                                                                                                                                                        |
| <b>Gene ID</b>             | 21828                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_011582                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_035712                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | Q9Z1T2                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 13 C3; 13 47.75 cM                                                                                                                                                                                                                     |
| <b>Pathway</b>             | ECM-receptor interaction; Focal adhesion; PI3K-Akt signaling pathway; Signal Transduction                                                                                                                                              |
| <b>Function</b>            | calcium ion binding; collagen binding; fibronectin binding                                                                                                                                                                             |

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