

## Recombinant Mouse Wars Protein, Myc/DDK-tagged

**Cat. No.** Wars-6961M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of Mouse tryptophanyl-tRNA synthetase (Wars), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                               |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | T1-TrpRS has aminoacylation activity while T2-TrpRS lacks it. T1-TrpRS and T2-TrpRS possess angiostatic activity. T2-TrpRS inhibits fluid shear stress-activated responses of endothelial cells. Regulates ERK, Akt, and eNOS activation pathways that are associated with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression. |
| <b>Molecular Mass</b>   | 53.6 kDa                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                       |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                    |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                             |

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## GENE INFORMATION

|                 |                                                                                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | Wars tryptophanyl-tRNA synthetase [ Mus musculus (house mouse) ]                                                                |
| Official Symbol | Wars                                                                                                                            |
| Synonyms        | WARS; tryptophanyl-tRNA synthetase; tryptophan--tRNA ligase, cytoplasmic; tryptophanyl-tRNA synthetase, cytoplasmic; WRS; TrpRS |
| Gene ID         | 22375                                                                                                                           |
| mRNA Refseq     | NM_001164488                                                                                                                    |
| Protein Refseq  | NP_001157960                                                                                                                    |
| UniProt ID      | P32921                                                                                                                          |

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