# Recombinant Mouse GAS6 Protein (Met1-Pro674), His-tagged

**Cat. No.** GAS6-898M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Mouse GAS6 Protein (NP_062394.2) (Met1-Pro674) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus. |
| **Species** | Mouse |
| **Source** | HEK293 |
| **ProteinLength** | Met1-Pro674 |
| **Description** | The growth arrest-specific 6 gene (GAS6) is a member of the family of plasma vitamin K-dependent proteins, which are able to bind to phospholipids using an N-terminal gamma-carboxyglutamic acid domain. GAS6 is a vitamin K-dependent protein, plays a role in the survival, proliferation, migration, differentiation, adhesion, and apoptosis of cells. The growth arrest-specific 6 (GAS6) has been implicated in systemic inflammation and coagulation. Growth arrest-specific 6 (GAS6), plays a role in tumor progression by regulating growth in many cancers. GAS6, expressed by osteoblasts in the bone marrow, plays a significant role in the regulation of PCa cell survival during chemotherapy, which will have important implications for targeting metastatic disease. The GAS6/TYRO3-AXL-MERTK (TAM) signaling pathway is essential for full and sustained platelet activation, as well as thrombus stabilization. Inhibition of this pathway decreases platelet aggregation, shape change, clot retraction, aggregate formation under flow conditions, and surface expression of activation markers. It had been show that GAS6 signaling regulates invasion, proliferation, chemotherapy- |

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| | induced apoptosis of prostate cancer (PCa) cells, and GAS6 secreted from osteoblasts in the bone marrow environment plays a critical role in establishing prostate tumor cell dormancy. |
| **Predicted N Terminal** | Val 28 |
| **Form** | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. |
| **Molecular Mass** | The recombinant mouse GAS6 consists of 658 amino acids and predicts a molecular mass of 73.5 kDa. |
| **Endotoxin** | < 1.0 EU per μg protein as determined by the LAL method. |
| **Purity** | > 95 % as determined by SDS-PAGE. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70 centigrade. |
| **Storage** | Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Reconstitution** | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4℃ before opening to recover the entire contents. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## GENE INFORMATION

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| **Gene Name** | Gas6 growth arrest specific 6 [ Mus musculus ] |
| **Official Symbol** | GAS6 |
| **Synonyms** | GAS6; growth arrest specific 6; GAS 6; Gas-6; |
| **Gene ID** | 14456 |
| **mRNA Refseq** | NM_019521 |
| **Protein Refseq** | NP_062394 |
| **UniProt ID** | Q61592 |

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