

Active Recombinant Human Growth Arrest-Specific 6, His-tagged

Cat. No. GAS6-613H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GAS6 protein was expressed in Murine myeloma cell line. Ala49-Ala678, with a C-terminal 6-His tag.
Species	Human
Source	Mammalian Cells
Protein Length	49-678 a.a.
Description	GAS6 is a multimodular protein that is upregulated by a wide variety of cell types in response to growth arrest. GAS6 and the structurally related Protein S are vitamin K dependent and have an extensively γ -carboxylated N-terminal Gla domain, four EGF-like repeats, and a C-terminal region with homology to steroid hormone binding globulin (SHBG). Human GAS6 is a 75 kDa protein that shares 77%-79% aa sequence identity with mouse and rat GAS6, and 43% aa identity with human protein S (over the region expressed). GAS6 binds and induces signaling through the receptor tyrosine kinases Axl, Dtk, and Mer. Human GAS6 interacts with both mouse and rat orthologs of these receptors.
Form	Lyophilized from a 0.2 μ m filtered solution in Tris, NaCl and Citrate.
N-terminal Sequence	Ala49
Molecular Weight	70.5 kDa

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Activity	Measured in a cell proliferation assay using T98G human glioblastoma cells. The ED50 for this effect is typically 100-400 ng/mL. Also measured by its ability to bind Recombinant Human Axl Fc Chimera in a functional ELISA.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	70-85 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile H ₂ O.
Storage	Use a manual defrost freezer and 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.

GENE INFORMATION

Gene Name	GAS6 growth arrest-specific 6 [Homo sapiens]
Official Symbol	GAS6
Synonyms	GAS6; growth arrest-specific 6; AXSF; AXLLG; AXL stimulatory factor; AXL receptor tyrosine kinase ligand
Gene ID	2621
mRNA Refseq	NM_000820
Protein Refseq	NP_000811

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MIM	600441
UniProt ID	Q14393
Chromosome Location	13q34
Pathway	Cell surface interactions at the vascular wall; Gamma-carboxylation of protein precursors; Gamma-carboxylation; Platelet activation; Hemostasis; Metabolism of proteins; Platelet degranulation; Post-translational protein modification; Removal of aminoterminal propeptides from gamma-carboxylated proteins; Transport of gamma-carboxylated protein precursors from the endoplasmic reticulum to the Golgi apparatus
Function	calcium ion binding; receptor agonist activity; receptor binding; receptor tyrosine kinase binding
PDB rendering based on 1h30.	