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

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

SPECIFICATION

Product Overview	RecombinantHuman GAS6 protein was expressed in Murinemyeloma cell line. Ala49-Ala678, with a C-terminal 6-Histag.
Species	Human
Source	Mammalian Cells
ProteinLength	49-678 a.a.
Description	GAS6 is a multimodular protein that is upregulated by awide variety of cell types in response to growth arrest. GAS6 and the structurally related Protein S are vitamin Kdependentand 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 proteinthat shares 77%-79% aa sequence identity with mouse and rat GAS6, and 43% aa identity with human protein S (over the regionexpressed). GAS6 binds and induces signaling through the receptortyrosine kinases Axl, Dtk, and Mer. Human GAS6 interactswith both mouse and rat orthologs of these receptors.
Form	Lyophilized from a0.2 μm filtered solution in Tris, NaCl and Citrate.
N-terminalSequence	Ala49
MolecularWeight	70.5 kDa

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Activity	Measuredin a cell proliferation assay using T98G human glioblastoma cells. The ED50 forthis effect is typically 100-400 ng/mL. Also measured by its ability to bindRecombinant Human Axl Fc Chimera in a functional ELISA.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	70-85kDa, reducing conditions.
Purity	>90%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstituteat 100μg/mL in sterile H2O.
Storage	Use a manual defrost freezer and avoid repeated freezethawcycles. 12 months from date of receipt, -20 to -70°C as supplied. 1month, 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 [Homosapiens]
Official Symbol	GAS6
Synonyms	GAS6; growtharrest-specific 6; AXSF; AXLLG; AXLstimulatory factor; AXL receptor tyrosine kinase ligand
Gene ID	2621
mRNA Refseq	NM_000820
Protein Refseq	NP_000811

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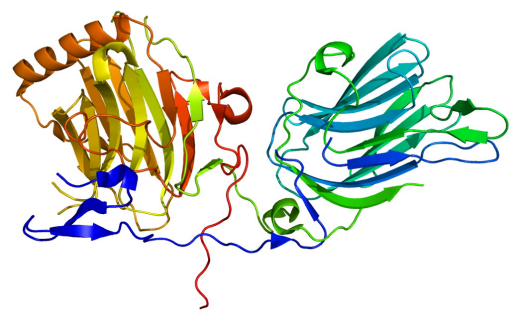
MIM	600441
UniProt ID	Q14393
Chromosome Location	13q34
Pathway	Cell surfaceinteractions at the vascular wall; Gamma-carboxylation of protein precursors;Gamma-carboxylation; Platelet activation; Hemostasis; Metabolism of proteins;Platelet degranulation; Post-translational protein modification; Removal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

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