Recombinant Human GAS-6 Protein

Catalog No.: RP02964

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Sequence Information

Species
human

Gene ID
2621

Swiss Prot
Q14393-2

Tags
C-His

Synonyms
GAS6, AXLLG,Growth arrest-specific protein 6, GAS-6, AXL receptor tyrosine kinase ligand

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
70.60 kDa

Observed MW
71-75 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

GAS-6 is a multimodular protein that is up-regulated 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 gamma -carboxylated N-terminal Gla domain, four EGF-like repeats, and a C-terminal region with homology to steroid hormone binding globulin (SHBG) . 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 . The full length isoform may be cleaved, resulting in release of the free SHBG region which can independently activate Axl . Shed soluble forms of Axl and Mer bind Gas6 and function as decoy receptors . Gas6 induces a variety of responses, including prevention of apoptosis , cell proliferation , platelet-mediated thrombosis , retinal epithelial cell phagocytosis of outer rod segments , inhibition of VEGF-induced endothelial cell chemotaxis , and the differentiation and expansion of NK cell precursors . The affinity of Gas6 for phosphatidylserine likely contributes to its role in promoting the phagocytosis of apoptotic cells . Several of these effects have been shown to require gamma -carboxylation of the Gla domain .

Basic Information

Description
Recombinant Human GAS-6 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Ala678) of Human GAS-6(Accession #NP_000811) fused with a His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

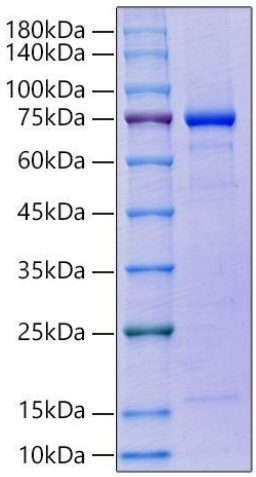
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human GAS-6 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.