

RP02964

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Recombinant Human GAS-6 Protein

Catalog No.: RP02964 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	2621	Q14393-2

Tags

C-His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact



www.abclonal.com

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.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

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

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.