abcam

Product datasheet

Recombinant human GCSF Receptor protein (Fc Chimera) ab83994

1 Image

Description

Product name	Recombinant human GCSF Receptor protein (Fc Chimera)
Biological activity	The ED_{50} of ab83994 is typically 2-3 ng/ml as measured by its ability to neutralize GCSF mediated proliferation of the murine myeloblastic m-NFS-60 cell line.
Purity	> 95 % SDS-PAGE.
Expression system	HEK 293 cells
Accession	Q99062
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	Theoretical Sequence: ECGHISVSAPIVHLGDPITASCIIKQNCSHLDPEPQILWRLG AELQPG GRQQRLSDGTQESIITLPHLNHTQAFLSCCLNWGNSLQILD QVELRAG YPPAIPHNLSCLMNLTTSSLICQWEPGPETHLPTSFTLKSF KSRGNCQ TQGDSILDCVPKDGQSHCCIPRKHLLLYQNMGIWVQAENA LGTSMSPQ LCLDPMDVVKLEPPMLRTMDPSPEAAPPQAGCLQLCWE PWQPGLHINQ KCELRHKPQRGEASWALVGPLPLEALQYELCGLLPATAY TLQIRCIRW PLPGHWSDWSPSLELRTTERAPTVRLDTWWRQRQLDPR TVQLFWKPVP LEEDSGRIQGYVVSWRPSGQAGAILPLCNTTELSCTFHLP SEAQEVAL VAYNSAGTSRPTPVVFSESRGPALTRLHAMARDPHSLWV GWEPPNPWP QGYVIEWGLGPPSASNSNKTWRMEQNGRATGFLLKENIR PFQLYEIIV

TPLYQDTMGPSQHVYAYSQEMAPSHAPELHLKHIGKTWA
QLEWVPEPP
ELGKSPLTHYTIFWTNAQNQSFSAILNASSRGFVLHGLEPA
SLYHIHL
MAASQAGATNSTVLTLMTLTPRSSNTKVDKKVEPKSCDK
THTCPPCPA
PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDP
EVKFNWYV
DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE
YKCKVSNKA
LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCL
VKGFYPS
DIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS
RWQQGNVF SCSVMHEALHNHYTQKSLSLSPGK

Amino acids	25 to 621
Additional sequence information	Encodes the signal peptide and extracellular domain of human G-CSF R (aa 1-621) was fused to the Fc region of human IgG1 (aa 90-330). The chimeric protein was expressed in modified human 293 cells.

Specifications

Our **Abpromise guarantee** covers the use of **ab83994** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Lyophilized

Preparation and Storage

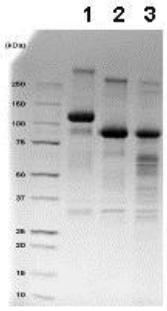
Stability and Storage	Shipped at 4°C. After reconstitution store at -20ºC. Avoid freeze / thaw cycles. Constituents: 1% Human serum albumin, 10% Trehalose This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

General Info

Function	Receptor for granulocyte colony-stimulating factor (CSF3), essential for granulocytic maturation. Plays a crucial role in the proliferation, differientation and survival of cells along the neutrophilic lineage. In addition it may function in some adhesion or recognition events at the cell surface.
Tissue specificity	One or several isoforms have been found in myelogenous leukemia cell line KG-1, leukemia U-937 cell line, in bone marrow cells, placenta, and peripheral blood granulocytes. Isoform GCSFR-2 is found only in leukemia U-937 cells. Isoform GCSFR-3 is highly expressed in placenta.
Involvement in disease	Hereditary neutrophilia
Sequence similarities	Belongs to the type I cytokine receptor family. Type 2 subfamily.

	Contains 5 fibronectin type-III domains. Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Domain	The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding. The box 1 motif is required for JAK interaction and/or activation.
Cellular localization	Secreted and Cell membrane.

Images



SDS-PAGE - Recombinant human GCSF Receptor protein (Fc Chimera) (ab83994)

1D SDS-PAGE of ab83994 before and after treatment with glycosidases to remove oligosaccharides.
Lane 1: ab83994
Lane 2: ab83994 treated with PNGase F to remove potential N-linked glycans
Lane 3: ab83994 treated with a glycosidase cocktail to remove potential N- and O-linked glycans.
Approximately 5 µg of protein was loaded per lane; Gel was stained using Coomassie.

Drop in MW after treatment with PNGase F indicates presence of N-linked glycans. A tightening of the band after treatment with the glycosidase cocktail indicates that O-linked glycans may be present. Additional bands in lane 2 and lane 3 are glycosidase enzymes.

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