Datasheet for ABIN2181144

CSF3R Protein (AA 25-621) (His tag)

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Overview

Quantity:	100 µg
Target:	CSF3R
Protein Characteristics:	AA 25-621
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CSF3R protein is labelled with His tag.

Product Details

Sequence:	AA 25-621
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 69 kDa. The protein migrates as 94 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CSF3R
Alternative Name:	G-CSF R (CSF3R Products)

Target Details

Background:	Granulocyte Colony Stimulating Factor Receptor (G-CSFR) is also known as Cluster of Differentiation 114 (CD114), CSF3R and GCSF, is a cell-surface receptor for the granulocyte colony-stimulating factor (G-CSF), a cytokine that plays a critical role in the regulation of the activation, proliferation, differentiation, and survival of the neutrophilic granulocyte lineage. G-CSFR belongs to a family of cytokine receptors known as the hematopoietin receptor family. This type I membrane protein has a composite structure consisting of an immunoglobulin(Ig)-like domain, a cytokine receptor-homologous (CRH) domain and three fibronectin type I II (FNIII) domains in the extracellular region. G-CSFR is present mainly on precursor cells in the bone marrow, and, in response to stimulation by G-CSF, initiates cell proliferation and differentiation into mature neutrophilic granulocytes and macrophages. G-CSFR mediates the specific effect of GCSF through activating a variety of intracellular signaling cascades, including the Jak/Stat, PI3/Akt, Ras-Raf-MAP kinase, and Src family kinase pathways, and thus functions in defense against infection, inflammation and repair, and in the maintenance of steady state hematopoiesis. Mutations in this gene are a cause of Kostmann syndrome, also known as severe congenital neutropenia. Mutations in the intracellular part of this receptor are also associated with certain types of leukemia.
Molecular Weight:	67.4 kDa
NCBI Accession:	NP_000751

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).

Publications

Product cited in:	Ye, Ge, Zhang, Cheng, Zhang, He, Wang, Lin, Yang, Liu, Zhao, Deng: "Pluripotent stem cells

Publications

induced from mouse neural stem cells and small intestinal epithelial cells by small molecule compounds." in: **Cell research**, Vol. 26, Issue 1, pp. 34-45, (2016) (PubMed).

Images

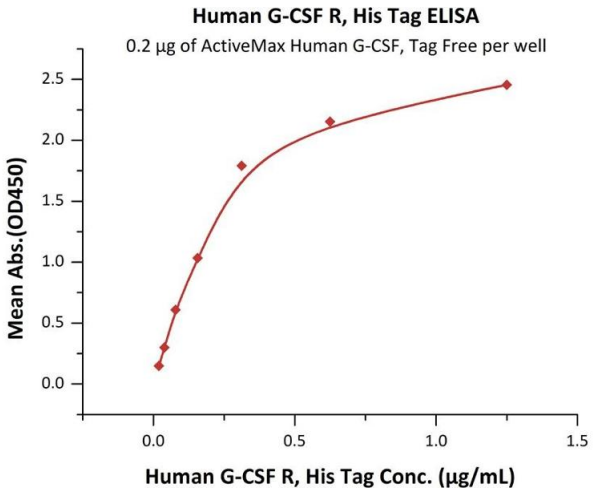

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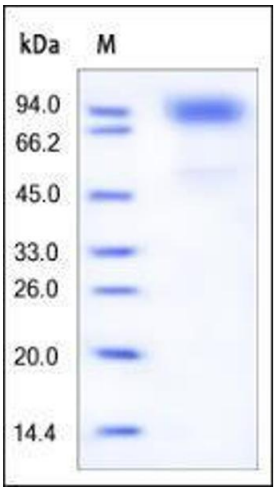
Image 1. Immobilized Human G-CSF, Tag Free (ABIN2181135,ABIN2693589) at 2 µg/mL (100 µL/well) can bind Human G-CSF R, His Tag (ABIN2181145,ABIN2181144) with a linear range of 0.01-0.313 µg/mL (QC tested).



SDS-PAGE

Image 2.