

Active Recombinant Human CSF3R Protein, His&Avi tagged

Cat. No. CSF3R-68H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GCSFR dimer protein contains a GCSFR extracellular domain (UniProt# Q99062) fused with a proprietary dimer motif followed by a tandem His-Avi tag at the C-terminus.
Species	Human
Source	HEK293T
ProteinLength	25-627 aa
Description	Human granulocyte colony-stimulating factor receptor (GCSFR) is a transmembrane receptor and a member of the Type I cytokine receptor family. GCSFR is also known as G-CSF-R, cluster of differentiation 114 (CD114), CSF3R, colony stimulating factor 3 receptor, and SCN7. GCSFR contains an extracellular domain with an immunoglobulin-like (Ig-like) domain, a cytokine receptor homologous domain, and three fibronectin type III domains followed by a transmembrane domain, and cytoplasmic domain. GCSFR is a cell-surface receptor for granulocyte colony-stimulating factor (GCSF) and is expressed on precursor cells in the bone marrow. It exists as a monomer, pre-formed dimer, ligand-induced dimer, and ligand independent dimer. GCSFR's dimerization is crucial for its functions in both physiological and pathological status. Increased GCSFR expression has been shown in a variety of cancers and is related to tumor proliferation, migration, and metastasis. GCSFR is an emerging target of cancer therapeutics.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	154 kDa
Homodimer/Heterodimer	Homodimer
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for GCSFR-specific antibody and granulocyte colony-stimulating factor (GCSF) ligand protein binding assays. Suggested Applications: ELISA for GCSFR-specific antibody and granulocyte colony-stimulating factor (GCSF) ligand protein binding assays. SPR & BLI for GCSFR-specific antibody and GCSF protein binding assays. Animal immunization, RUO.
Storage	At -80 centigrade
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID	1441
Gene Name	CSF3R colony stimulating factor 3 receptor (granulocyte) [Homo sapiens (human)]
Official Symbol	1441
Synonyms	CSF3R; colony stimulating factor 3 receptor (granulocyte); CD114; granulocyte colony-stimulating factor receptor; GCSFR; G-CSF-R; CD114 antigen; G-CSF receptor;

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mRNA Refseq	NM_000760
Official Symbol 2	CSF3R
Gene ID 2	1441
Gene Name 2	CSF3R colony stimulating factor 3 receptor (granulocyte) [Homo sapiens (human)]
mRNA Refseq 2	NM_000760
Protein Refseq 2	NP_000751
MIM 2	138971
UniProt ID 2	Q99062
Bioactivity-Antibody Binding	Immobilized human GCSFR-His-Avi dimer protein at 2 µg/mL (100 µL/well) can bind anti-human GCSFR monoclonal antibody with half maximal effective concentration (EC50) range of 6.5-25.9 ng/mL (QC tested).
Bioactivity-Ligand Binding	Immobilized human GCSFR-His-Avi dimer protein at 2 µg/mL (100 µL/well) can bind human GCSF with half maximal effective concentration (EC50) range of 94.8-379 ng/mL (QC tested).
SDS-PAGE	MW: Molecular Weight marker reduced condition NR: GCSFR dimer under non-reduced condition