Datasheet for ABIN2180910

CSF1R Protein (AA 20-512) (His tag)

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3 Images

Overview

Quantity:	200 µg
Target:	CSF1R
Protein Characteristics:	AA 20-512
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CSF1R protein is labelled with His tag.

Product Details

Sequence:	AA 20-512
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 55.1 kDa. The protein migrates as 80-95 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>96 % 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:	CSF1R
Alternative Name:	M-CSF R (CSF1R Products)

Target Details

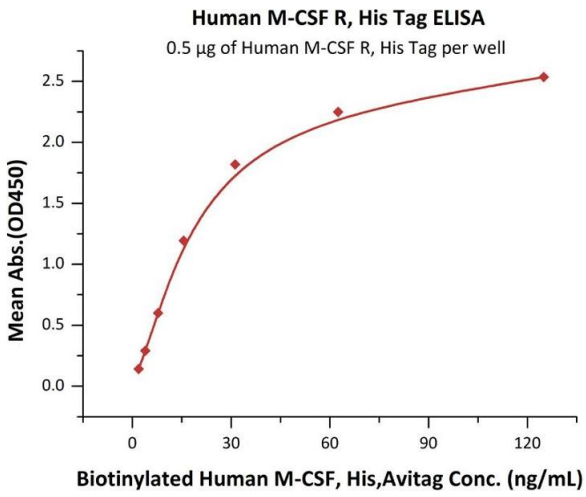
Background:	Colony stimulating factor 1 receptor (CSF1R) is also known as macrophage colony-stimulating factor receptor (M-CSFR), CD115 Cluster of Differentiation 115 (CD115), C-FMS, CSFR, FIM2, FMS, and is a member of the typeIII subfamily of receptor tyrosine kinases (RTKs). CSF1R is a receptor for a cytokine called colony stimulating factor 1, The protein encoded by the CSFR1 gene is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most, if not all, of the biological effects of this cytokine. Ligand binding activates CSFR1 through a process of oligomerization and transphosphorylation . Mutations in CSF1R are associated with chronic myelomonocytic leukemia and type M4 acute myeloblastic leukemia. Increased levels of CSF1R1 are found in microglia in Alzheimer's disease and after brain injuries. The increased receptor expression causes microglia to become more active. Both CSF1R, and its ligand colony stimulating factor 1 play an important role in the development of the mammary gland and may be involved in the process of mammary gland carcinogenesis.
Molecular Weight:	55.3 kDa
NCBI Accession:	NP_005202
Pathways:	RTK Signaling, Inositol Metabolic Process, Cell-Cell Junction Organization

Application Details

Restrictions:	For Research Use only

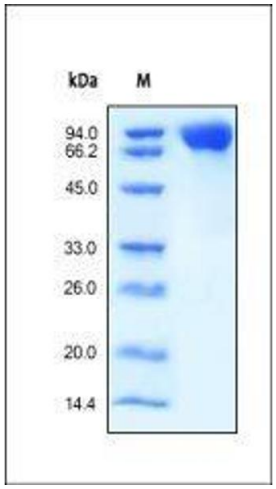
Handling

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).



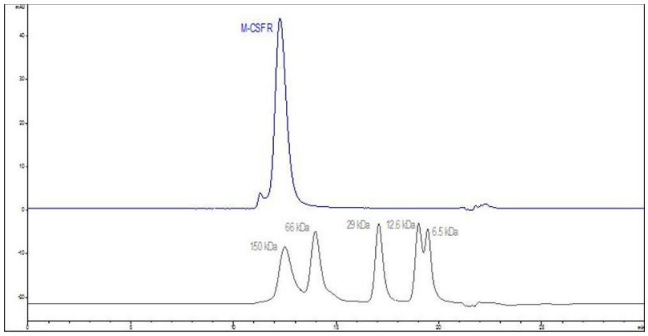
ELISA

Image 1. Immobilized Human M-CSF R, His Tag (ABIN2180910,ABIN2180909) at 5 µg/mL (100 µL/well) can bind Biotinylated Human M-CSF, His,Avitag (ABIN6386447,ABIN6388276) with a linear range of 2-31 ng/mL (QC tested).



SDS-PAGE

Image 2. Human M-CSF R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 96%.



High Pressure Liquid Chromatography

Image 3. The purity of Human M-CSF R, His Tag (ABIN2180910,ABIN2180909) was greater than 90 % as determined by .

