

Datasheet for ABIN7274422

CSF1R Protein (AA 99-596) (His tag)**4** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CSF1R
Protein Characteristics:	AA 99-596
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CSF1R protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus M-CSF R/CSF1R/CD115 Protein
Sequence:	Ile99-Pro596
Characteristics:	Recombinant Cynomolgus M-CSF R/CSF1R/CD115 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ile99-Pro596.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Cynomolgus M-CSF R, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-M-CSF R Antibody, hFc Tag with the EC50 of 14.4 ng/ml determined by ELISA. The affinity constant of 0.889 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

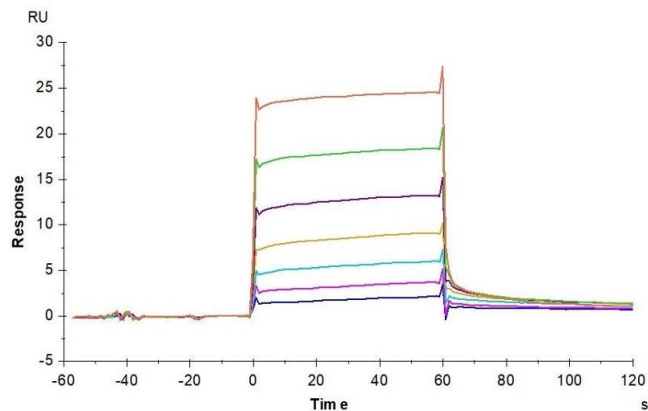
Target:	CSF1R
Alternative Name:	M-CSF R (CSF1R Products)
Background:	CSF1R also known as M-CSF receptor, the product of the c-fms proto-oncogene, is a member of the type III subfamily of receptor tyrosine kinases that also includes receptors for SCF and PDGF. These receptors each contain five immunoglobulin-like domains in their extracellular domain (ECD) and a split kinase domain in their intracellular region. CSF1R is tyrosine-protein kinase that acts as cell-surface receptor for CSF1 and IL34 and plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes.
Molecular Weight:	56.3 kDa. Due to glycosylation, the protein migrates to 75-105 kDa based on Tris-Bis PAGE result.
UniProt:	G7P8P1
Pathways:	RTK Signaling , Inositol Metabolic Process , Cell-Cell Junction Organization

Application Details

Restrictions:	For Research Use only
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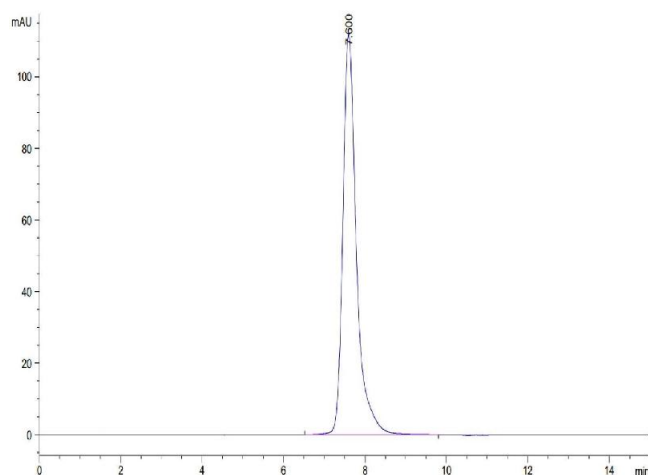
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



Surface Plasmon Resonance

Image 1. Cynomolgus M-CSF R, His Tag immobilized on CM5 Chip can bind Cynomolgus M-CSF, His Tag with an affinity constant of 0.889 μM as determined in SPR assay (Biacore T200).

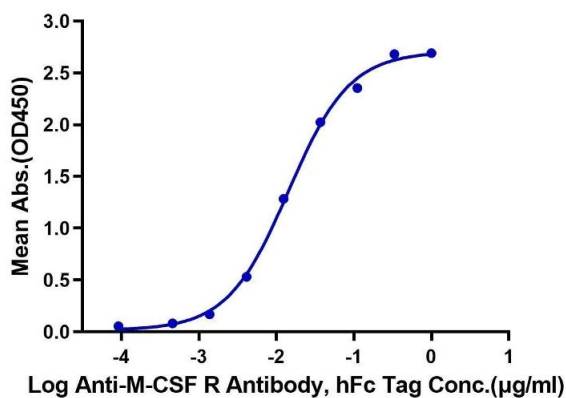


Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Cynomolgus M-CSF R is greater than 95 % as determined by SEC-HPLC.

Cynomolgus M-CSF R, His Tag ELISA

0.1 μg Cynomolgus M-CSF R, His Tag Per Well



ELISA

Image 3. Immobilized Cynomolgus M-CSF R, His Tag at 1 $\mu\text{g/mL}$ (100 μL /well) on the plate. Dose response curve for Anti-M-CSF R Antibody, hFc Tag with the EC_{50} of 14.4 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274422.