

Datasheet for ABIN7274425

M-CSF/CSF1 Protein (AA 33-190) (His-Avi Tag)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	M-CSF/CSF1 (CSF1)
Protein Characteristics:	AA 33-190
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This M-CSF/CSF1 protein is labelled with His-Avi Tag.

Product Details

Purpose:	Human M-CSF/CSF-1 Protein
Sequence:	Glu33-Asn190
Characteristics:	Recombinant Human M-CSF/CSF-1 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Glu33-Asn190.
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 Human M-CSF, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human M-CSF R, hFc Tag with the EC50 12.4ng/ml determined by ELISA. The affinity constant of 0.24 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

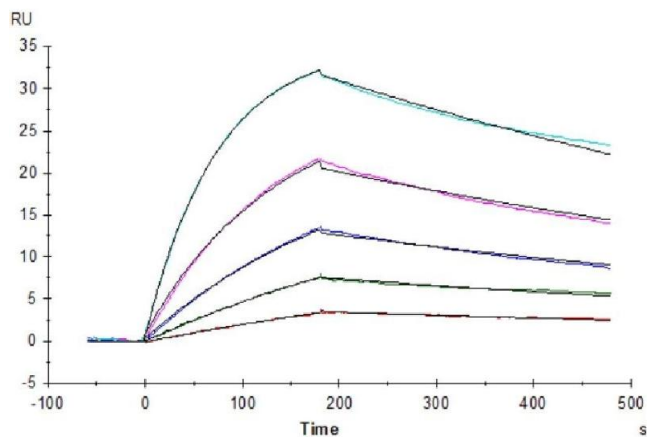
Target:	M-CSF/CSF1 (CSF1)
Alternative Name:	M-CSF (CSF1 Products)
Background:	CSF-1, also known as M-CSF , is a four alpha -helical-bundle cytokine that is the primary regulator of macrophage survival, proliferation and differentiation. CSF-1 is also essential for the survival and proliferation of osteoclast progenitors.CSF-1 is cytokine that 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:	21.3 kDa. Due to glycosylation, the protein migrates to 28-34 kDa based on Tris-Bis PAGE result.
Pathways:	RTK Signaling

Application Details

Restrictions:	For Research Use only
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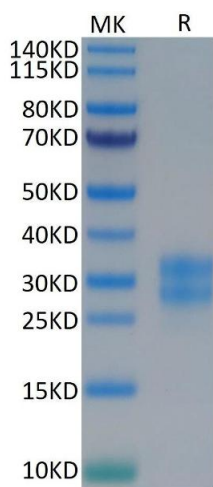
Handling

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



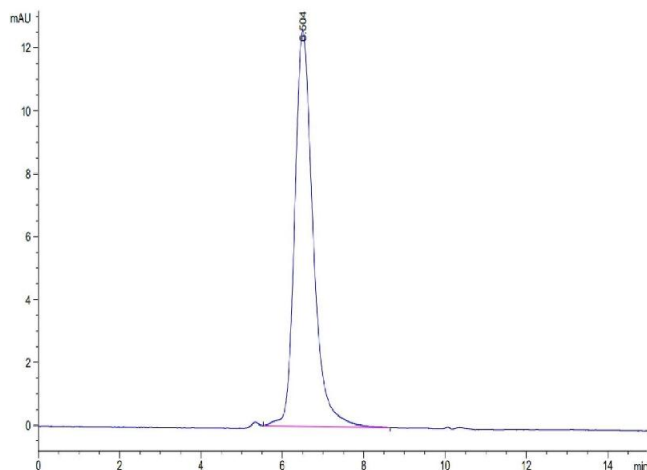
Surface Plasmon Resonance

Image 1. Human M-CSF, His Tag captured on CM5 Chip via Anti-his Antibody can bind Human M-CSF R, hFc Tag with an affinity constant of 0.24 nM as determined in SPR assay (Biacore T200).



SDS-PAGE

Image 2. Human M-CSF on Tris-Bis PAGE under reduced conditions. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human M-CSF is greater than 95 % as determined by SEC-HPLC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274425.