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M-CSF/CSF1 Protein (AA 33-255) (His tag)

3 Images



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Overview

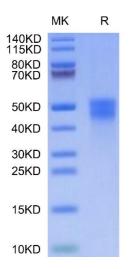
Quantity:	100 μg
Target:	M-CSF/CSF1 (CSF1)
Protein Characteristics:	AA 33-255
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This M-CSF/CSF1 protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus M-CSF/CSF-1 Protein
Sequence:	Glu33-Leu255
Characteristics:	Recombinant Cynomolgus M-CSF/CSF-1 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Glu33-Leu255.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.889 μM as determined in SPR assay (Biacore T200). See testing image for detail.

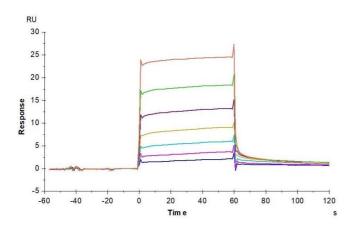
Target Details

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. Promotes the
	release of proinflammatory chemokines, and thereby plays an important role in innate immunity
	and in inflammatory processes. This mutation leads to a deletion of exons 2-7 of the EGFR
	gene and renders the mutant receptor incapable of binding any known ligand.
Molecular Weight:	26.26 kDa. Due to glycosylation, the protein migrates to 45-55 kDa based on Tris-Bis PAGE
	result.
NCBI Accession:	XP_045221641
Pathways:	RTK Signaling
Application Details	
Restrictions:	For Research Use only
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



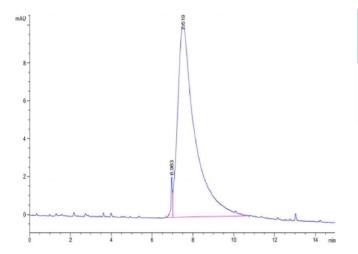
SDS-PAGE

Image 1. Cynomolgus M-CSF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



Surface Plasmon Resonance

Image 2. Cynomolgus M-CSF R, His Tag immobilized on CM5 Chip can bind Cynomolgus M-CSF, His Tag with an affinity constant of 0.889 μ M as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

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