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# Datasheet for ABIN7321076 CSF1R Protein (His tag)

Image



#### Overview

Quantity:	100 µg
Target:	CSF1R
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CSF1R protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Rat CSF1R/CD115 Protein (His Tag)(Active)
Sequence:	Met1-Glu510
Characteristics:	A DNA sequence encoding the rat CSF1R (D4ACA7) (Met1-Glu510) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per $\mu g$ of the protein as determined by the LAL method
Biological Activity Comment:	Immobilized rat CSF1R-His at 10 µg/ml (100 µl/well) can bind biotinylated human CSF1-His, The EC50 of biotinylated human CSF1-His is 7.8-18.3 ng/ml.

### Target Details

Target:

CSF1R

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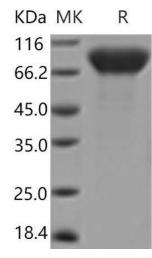
Alternative Name:	CSF1R/CD115 (CSF1R Products)
Background:	Background: M-CSFR encoded by the proto-oncogene c-fms is the receptor for colony
	stimulating factor 1 (CSF1R), a cytokine involved in the proliferation, differentiation, and
	activation of macrophages. This cell surface glycoprotein is consisted by an extracellular
	ligand-binding domain, a single membrane-spanning segment, and an intracellular tyrosine
	kinase domain. Binding of CSF1 activates the receptor kinase, leading to "autophosphorylation"
	of receptor subunits and the concomitant phosphorylation of a series of cellular proteins on
	tyrosine residues. CSF1R is a tyrosine kinase receptor that is absolutely required for
	macrophage differentiation and thus occupies a central role in hematopoiesis. CSF1 and its
	receptor (CSF1R, product of c-fms proto-oncogene) were initially implicated as essential for
	normal monocyte development as well as for trophoblastic implantation. This apparent role for
	CSF1/CSF1R in normal mammary gland development is very intriguing because this
	receptor/ligand pair has also been found to be important in the biology of breast cancer in
	which abnormal expression of CSF1 and its receptor correlates with tumor cell invasiveness
	and adverse clinical prognosis. Tumor cell expression of CSF1R is under the control of several
	steroid hormones (glucocorticoids and progestins) and the binding of several bHLH
	transcription factors, while tumor cell expression of CSF-1 appears to be regulated by other
	hormones, some of which are involved in normal lactogenic differentiation. However, studies
	have demonstrated that CSF1 and CSF1R have additional roles in mammary gland
	development during pregnancy and lactation. The role of CSF1 and CSF1R in normal and
	neoplastic mammary development that may elucidate potential relationships of growth factor-
	induced biological changes in the breast during pregnancy and tumor progression.
	Synonym: CSF1R;MCSF Receptor
Molecular Weight:	56.5 kDa
UniProt:	D4ACA7
Pathways:	RTK Signaling, Inositol Metabolic Process, Cell-Cell Junction Organization
Application Details	
Restrictions:	For Research Use only
Handling	
-	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.

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Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

#### Images



Western Blotting		
Image 1.		