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# Datasheet for ABIN2018212 M-CSF/CSF1 Protein (AA 33-190, Isoform 3)

2 Images

1 Publication



## Overview

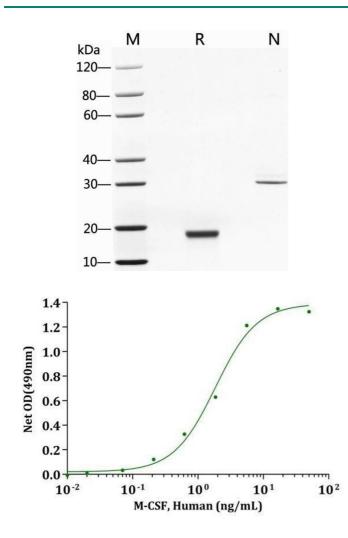
Quantity:	100 µg
Target:	M-CSF/CSF1 (CSF1)
Protein Characteristics:	Isoform 3, AA 33-190
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Characteristics:	ED50 of 1 - 3 ng/mL, measured by cell proliferation assay of M-NFS-60, corresponding to a
	specific activity of 3.3 x 105-1 x 10^6 units/mg.
	AA 33-190 (Isoform 3), expressed with an N-terminal Met.
Purity:	> 95 % as analyzed by non-reducing SDS-PAGE.
Endotoxin Level:	< 1 EU/µg, determined by LAL method.
Target Details	
Target:	M-CSF/CSF1 (CSF1)

Alternative Name:	Macrophage Colony Stimulating Factor (M-CSF) (CSF1 Products)
Background:	Macrophage Colony-Stimulating Factor 1 (M-CSF), involved especially in monocytopoiesis,[1]is
	a hematopoietic growth factor. In mammals, it exits three isoforms, which invariably share an
	N-terminal 32-aa signal peptide, a 149-residue growth factor domain, a 21-residue

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	transmembrane region and a 37-aa cytoplasmictail[2]. The biological activity of human M-CSF is maintained within the 149-aa growth factor domain[3], and it is only active in the disulfide- linked dimeric form[4], which is bonded at Cys63. Recombinant human Macrophage Colony- Stimulating Factor 1 (rhM-CSF) produced in E. coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 159 amino acids each. A fully biologically active molecule, rhM-CSF has a molecular mass of 28 kDaanalyzed by non-reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques. Synonyms: Macrophage Colony Stimulating Factor, CSF-1, Lanimostim, MCSF, MGC31930, M- CSF.
Molecular Weight:	28 kDa, observed by non-reducing SDS-PAGE.
UniProt:	P09603
Pathways:	RTK Signaling
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS or Tris-HCl, pH 8.0 at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against 50 mM Tris-HCl, pH 8.0.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant human Macrophage Colony-Stimulating Factor 1 (rhM-CSF) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhM-CSF should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Expiry Date:	6 months
Publications	
Product cited in:	Bertin, Barat, Bélanger, Tremblay: "Leukotrienes inhibit early stages of HIV-1 infection in monocyte-derived microglia-like cells." in: <b>Journal of neuroinflammation</b> , Vol. 9, pp. 55, (2012) ( PubMed).

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#### SDS-PAGE

**Image 1.** 2  $\mu$ g of M-CSF, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.

### **Activity Assay**

**Image 2.** M-CSF, Human stimulates cell proliferation of M-NFS-60 cells. The ED50 for this effect is typically 1.99ng/mL.

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