

Datasheet: 4740-1255

Description:	RECOMBINANT HUMAN M-CSF
Name:	M-CSF
Format:	Purified
Product Type:	Recombinant Protein
Quantity:	2 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Functional Assays	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant protein - lyophilized
Reconstitution	Reconstitute in sterile distilled water to 0.1-0.5 mg/ml.
Source	E.coli
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	< 0.1 ng/ug

External Database Links

UniProt:
[P09603](#) [Related reagents](#)

Entrez Gene:

[1435](#) CSF1 [Related reagents](#)

Product Information	Recombinant human macrophage colony stimulating factor (M-CSF) expressed in <i>E. coli</i> .
Activity	The ED ₅₀ was determined by the dose dependent stimulation of the proliferation of murine M-NSF-60 cells is 1.0 ng/ml, corresponding to a specific activity of 1 x 10 ⁶ units/mg.
Purity	>98% by SDS PAGE and HPLC analyses
References	<ol style="list-style-type: none">1. Ralph, P. <i>et al.</i> (1986) Molecular and biological properties of human macrophage growth factor, CSF-1. Cold Spring Harb Symp Quant Biol. 51:679 - 6832. MacDonald, B.R. <i>et al.</i> (1986) Effects of human recombinant CSF-GM and highly purified CSF-1 on the formation of multinucleated cells with osteoclast characteristics in long-term bone marrow cultures J Bone Miner Res. 1: 227 - 233.3. Ralph, P. <i>et al.</i> (1986) Biological properties and molecular biology of the human macrophage growth factor, CSF-1. Immunobiology. 172: 194 - 204.4. Wong, G.G. (1987) Human CSF-1: molecular cloning and expression of 4-kb cDNA encoding the human urinary protein. Science. 235: 1504-1508
Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10302 available at: https://www.bio-rad-antibodies.com/SDS/4740-1255 10302
Regulatory	For research purposes only

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M420000:230706'

Printed on 12 Aug 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)