

Datasheet: PHP220

Description:	RECOMBINANT HUMAN M-CSF
Name:	M-CSF
Other names:	MACROPHAGE COLONY-STIMULATING FACTOR
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 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	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			1.0 - 10.0ng/ml

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 - lyophilised
Reconstitution	Reconstitute with 0.1ml distilled water. For extended storage the addition of 0.1% BSA is recommended. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preparation	Purified recombinant M-CSF expressed in <i>E.coli</i>
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	None present
Endotoxin Level	<1EU/ug
Approx. Protein Concentrations	0.1mg/ml after reconstitution.
External Database Links	UniProt: P09603 Related reagents

Entrez Gene:[1435](#) CSF1 [Related reagents](#)

Product Information **M-CSF (Macrophage colony-stimulating factor)** is a potent lineage restricted haematopoietic growth factor and member of the CSF family of hormone-like glycoproteins, which plays a key role in the regulation of cellular differentiation, proliferation, and the survival of blood monocytes, tissue macrophages and their progenitor cells.

Along with sRANKL/CD254/OPGL, M-CSF is essential for osteoclastogenesis, acting through the tyrosine kinase receptor c-fms (colony stimulating factor 1 receptor), and facilitates haematopoietic recovery following bone marrow transplantation.

Molecular Weight	36.8kD (159 amino acid homodimer)
Activity	The ED ₅₀ , determined by the dose-dependent stimulation of the proliferation of M-NSF-60 cells, was ≤ 1 ng/ml corresponding to a specific activity of ≥ 1 x 10 ⁶ units/mg.
Purity	≥ 98% by SDS PAGE and HPLC analysis
ELISA	PHP220 may be used in ELISA applications with AHP1915 .
Western Blotting	PHP220 may be used under reducing or non-reducing western blotting conditions with AHP1915 .
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10527 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

[RABBIT ANTI HUMAN M-CSF \(AHP1915\)](#)

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