

Datasheet: PMP82

Description:	RECOMBINANT MOUSE GM-CSF
Name:	GM-CSF
Other names:	GRANULOCYTE MACROPHAGE COLONY STIMULATING FACTOR
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	20 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.abdserotec.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			0.2 - 0.4ng/well
Western Blotting	■			1.5 - 3.0ng/lane
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	Mouse
Product Form	Purified recombinant protein - lyophilised
Reconstitution	Reconstitute with 0.2ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. AbD Serotec recommend that the vial is gently mixed after reconstitution.
Preparation	Purified recombinant GM-CSF expressed in <i>E. coli</i>
Buffer Solution	10mM Acetic Acid
Preservative Stabilisers	None present
Endotoxin Level	<1EU/ug
Approx. Protein Concentrations	0.1 mg/ml after reconstitution
External Database Links	<p>UniProt: P01587 CSF2_MOUSE Related reagents</p> <p>Entrez Gene: 12981 Csf2 Related reagents</p>
Synonyms	Csfgm
Product Information	GM-CSF (granulocyte-macrophage colony-stimulating factor) is a haematopoietic growth factor which exists in both glycosylated and non-glycosylated biologically active forms, and stimulates the development of granulocytes, macrophages, early megakaryocytes and eosinophil progenitor cells. The ability of recombinant GM-CSF to increase

haematopoietic cell recovery has become a focus area in the therapeutic treatment of patients following bone marrow transplantation.

Protein Molecular Weight	14.2kDa (124 amino acid residues)
Activity	The ED ₅₀ as determined by the dose-dependent stimulation of the proliferation of murine FDC-P1 cells is ≤ 0.05 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^7$ units/mg.
Purity	>98% by SDS PAGE and HPLC analysis
ELISA	PMP82 may be used as a standard in ELISA application involving either AAM16G or AAM16B .
Western Blotting	PMP82 may be used as a positive control for western blotting applications involving either AAM16G or AAM16B .
Storage	<p>Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10319 available at: http://www.abdserotec.com/uploads/MSDS/10319.pdf
Regulatory	For research purposes only

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