

Datasheet: PHP235

Description:	RECOMBINANT HUMAN 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	-			1.0ng/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.

Human	
Purified recombinant protein - lyophilised	
Reconstitute with 200ul distilled water Care should be taken during reconstitution as the protein may appea	r as a film at the bottom of the vial. AbD Serot
recommend that the vial is gently mixed after reconstitution.	
Purified recombinant GM-CSF expressed in E. coli	
None present	
<1EU/ug	
0.1mg/ml after reconstitution	
UniProt: P04141 CSF2_HUMAN Related reagents	
Entrez Gene: 1437 CSF2 Related reagents	
	Purified recombinant protein - lyophilised Reconstitute with 200ul distilled water Care should be taken during reconstitution as the protein may appear recommend that the vial is gently mixed after reconstitution. Purified recombinant GM-CSF expressed in <i>E. coli</i> None present <1EU/ug 0.1mg/ml after reconstitution UniProt: P04141 CSF2_HUMAN Related reagents Entrez Gene:

Product Information

GMCSF

Synonyms

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.

Molecular Weight	14.6kD (128 amino acid residues)
Activity	The ED ₅₀ as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is \leq 0.1 ng/ml, corresponding to a specific activity of \geq 1 x 10 ⁷ units/mg.
Purity	>98% by SDS PAGE/HPLC analysis
ELISA	PHP235 may be used as a standard in ELISA application involving either AHP772 or AHP772B.
Western Blotting	PHP235 may be used as a positive control for western blotting applications involving either AHP772 or AHP772B
References	 Radford, D.J. <i>et al.</i> (2010) Dehdyroepiandrosterone sulfate directly activates protein kinase C-beta to increase human neutrophil superoxide generation. Mol Endocrinol. 24: 813-21. Abediankenari, S, & Ghasemi, M. (2009) Generation of immune inhibitory dendritic cells and CD4+T regulatory cells inducing by TGF-beta. Iran J Allergy Asthma Immunol. 8: 25-30 Abediankenari, S. et al. (2011) Human Leukocyte Antigen-G Expression on Dendritic Cells Induced by Transforming Growth Factor-Beta1 and CD4+ T Cells Proliferation. Iran Biomed J. 15: 1-5. Olivetta, E. <i>et al.</i> (2005) HIV-1 Nef regulates the release of superoxide anions from human macrophages. Biochem J. 390: 591-602.
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at -20°C. This product should be stored undiluted. 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.
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10268 available at: http://www.abdserotec.com/uploads/MSDS/10268.pdf
Regulatory	For research purposes only

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