

Product datasheet

Recombinant Rat M-CSF Protein (Active) ab307410

[4 Images](#)

Description

Product name	Recombinant Rat M-CSF Protein (Active)	
Biological activity	Fully biologically active determined by the dose dependent proliferation of M-NFS-60 cells. ED50 is ≤ 1.8 ng/ml, corresponding to a specific activity of 5.5×10^5 units/mg.	
Purity	<p>≥ 95 % HPLC.</p> <p>SDS-PAGE ≥ 95%</p>	
Endotoxin level	≤ 0.005 Eu/ μ g	
Expression system	HEK 293 cells	
Accession	<u>Q8JZQ0</u>	
Protein length	Protein fragment	
Animal free	Yes	
Carrier free	Yes	
Nature	Recombinant	
Species	Rat	
Sequence	<p>EVSEHCSTMIGNHGLQLQLIDSQMETACLIEYKFVDQEQ</p> <p>LDDPVCYLK</p> <p>KAFVLVQVIEETMRFKDNTPNANATERLQELSMKLNSCFI</p> <p>KDYKEQNEA</p> <p>CVQTYKESPLRLLEKIKNFFNETKNFLEKDOWNIFSKNCND</p> <p>SFAKCSSRDV VTKPDCNC</p>	
Predicted molecular weight	19 kDa	
Actual molecular weight	19 kDa	
Molecular weight information	Predicted MW is 18505.07 (+/- 10 Da by ESI-TOF). Observed MW is 18506.60 Da.	
Amino acids	33 to 190	
Additional sequence information	N-terminal glycine (On N-Term)	

Specifications

Our **Abpromise guarantee** covers the use of **ab307410** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications HPLC

	SDS-PAGE
	Mass Spectrometry
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at Room Temperature. Store at Room Temperature. pH: 7.40 Constituents: 0.727% Dibasic monohydrogen potassium phosphate, 0.248% Monobasic dihydrogen potassium phosphate, 10.26% Trehalose This product is an active protein and may elicit a biological response in vivo, handle with caution.
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Reconstitution	Lyophilized contents may appear as either a translucent film or a white powder. This variance does not affect the quality of the product. Store lyophilized form at room temperature. Reconstitute in phosphate buffered saline, aliquot and store at -80°C for 12 months or +4°C for 1 week. Avoid repeated freeze-thaw.
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General Info

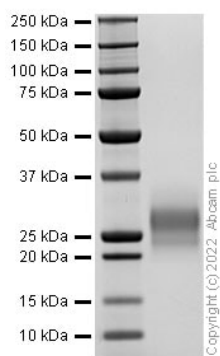
Function	Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.
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Post-translational modifications	Glycosylation and proteolytic cleavage yield different soluble forms. A high molecular weight soluble form is a proteoglycan containing chondroitin sulfate. Isoform 1 is N- and O-glycosylated. Isoform 3 is N-glycosylated.
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Cellular localization	Cell membrane and Secreted > extracellular space.
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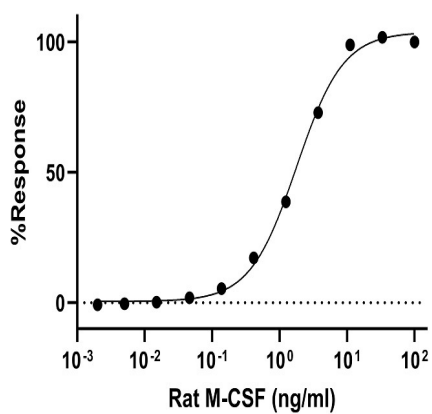
Images

SDS-PAGE analysis of ab307410



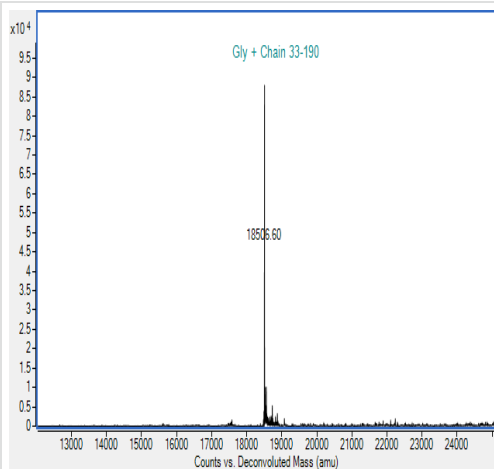
SDS-PAGE - Recombinant Rat M-CSF Protein
(ab307410)

Fully biologically active determined by the dose dependent proliferation of M-NFS-60 cells. ED50 is ≤ 1.8 ng/ml, corresponding to a specific activity of 5.5×10^5 units/mg.



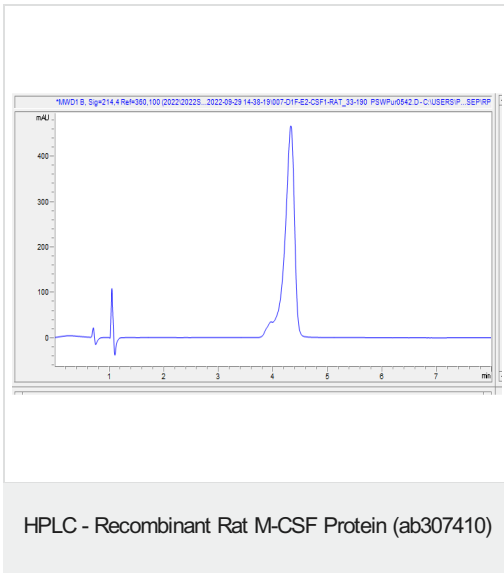
Biological Activity - Recombinant Rat M-CSF Protein
(Active) (ab307410)

Mass determination by ESI-TOF. Predicted MW is 18505.07 Da (± 10 Da by ESI-TOF). Observed MW is 18506.60 Da.



Mass Spectrometry - Recombinant Rat M-CSF
Protein (ab307410)

HPLC analysis of ab307410



Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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