

Product datasheet

Recombinant mouse GM-CSF protein (Active) ab259385

[4 Images](#)

Description

Product name	Recombinant mouse GM-CSF protein (Active)	
Biological activity	Fully biologically active when compared to standard. Determined by the dose dependant proliferation of MC/9 cells. ED50 is ≤ 0.04 ng/mL, corresponding to a specific activity of 2.50×10^7 units/mg.	
Purity	≥ 95 % SDS-PAGE. Purity by HPLC $\geq 95\%$.	
Endotoxin level	≤ 0.005 Eu/ μ g	
Expression system	HEK 293 cells	
Accession	P01587	
Protein length	Full length protein	
Animal free	Yes	
Carrier free	Yes	
Nature	Recombinant	
Species	Mouse	
Sequence	APTRSPITVTRPWKHVEAIKEALNLLDDMPVTLNEEVEVV SNEFSFKKLT CVQTRLKIFEQGLRGNFTKLGALNMTASYQTYCPPTPET DCETQVTTYADFIDSLKTFLTDIPFECKKPVQK	
Predicted molecular weight	14 kDa	
Molecular weight information	Mass – 1 Da (+237.23 Da: Pi[3]; + 203 Da: HexNAc[1]; +162 Da: Hex[1]) (Calc. mass 14211.77 Da).	
Amino acids	17 to 141	
Additional sequence information	N-terminal glycine. Full-length mature chain lacking the signal peptide.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab259385** in the following tested applications.

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

Applications	Functional Studies
	HPLC

Mass Spectrometry

SDS-PAGE

Cell Culture

Form

Lyophilized

Additional notes

This protein is filter sterilised prior to aliquoting and lyophilisation. All aliquoting and lyophilisation steps are performed in a sterile environment

Preparation and Storage

Stability and Storage

Shipped at Room Temperature. Store at Room Temperature.

Information available upon request.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Reconstitute with phosphate buffered saline. Store lyophilized form at room temperature.

Reconstitute, aliquot and store at -80°C for 12 months or +4°C for 1 week. Avoid repeated freeze-thaw. Lyophilized contents may appear as either a translucent film or a white powder. This variance does not affect the quality of the product.

General Info

Function

Cytokine that stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes.

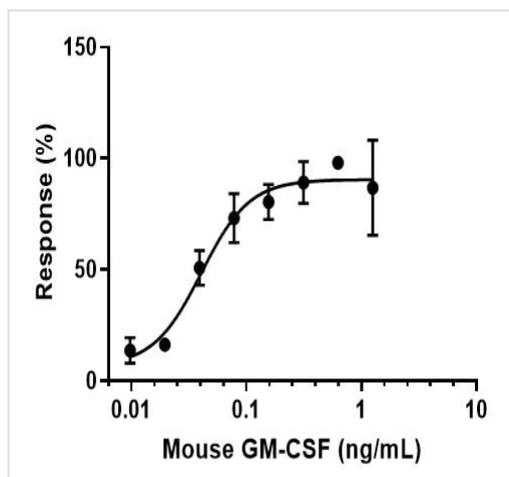
Sequence similarities

Belongs to the GM-CSF family.

Cellular localization

Secreted.

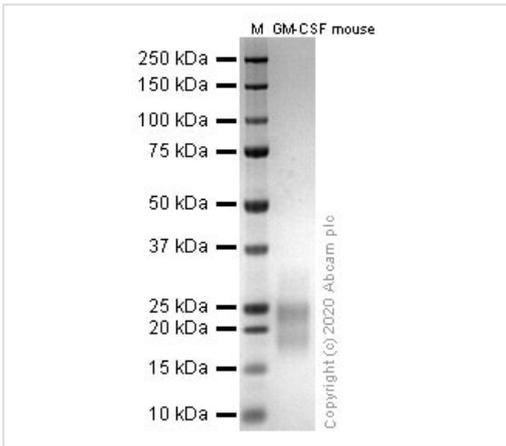
Images



Fully biologically active when compared to standard. Determined by the dose dependant proliferation of MC/9 cells.

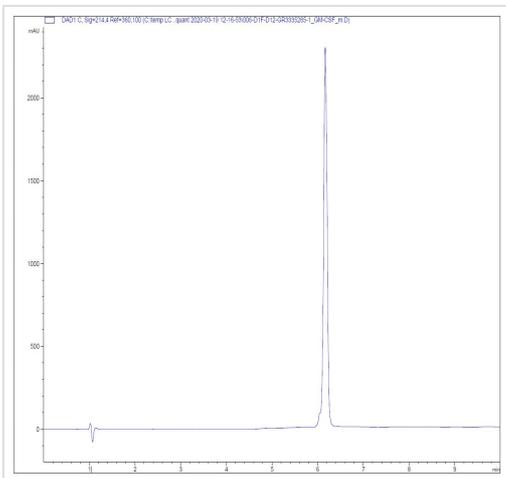
ED50 is ≤ 0.04 ng/mL, corresponding to a specific activity of 2.50×10^7 units/mg.

Functional Studies - Recombinant mouse GM-CSF protein (Active) (ab259385)



SDS-PAGE - Recombinant mouse GM-CSF protein (Active) (ab259385)

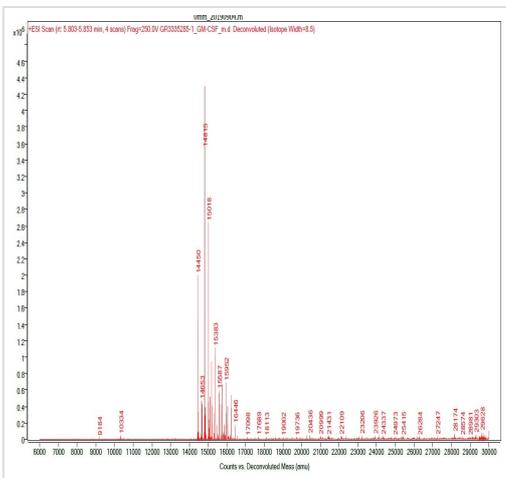
SDS-PAGE analysis of ab259385.



HPLC - Recombinant mouse GM-CSF protein (Active) (ab259385)

Purity >= 95%.

The spectrum was recorded using a 1260 Infinity II HPLC system with DAD and a MabPac RP column (3.0x100 mm, 4 μm). 5 μL of purified protein was injected and the gradient run from 80 % water:TFA (99.9:0.1 v/v) and 20 % acetonitrile:water:TFA (90:9.9:0.1 v/v/v) to 20 % water:TFA (99.9:0.1 v/v) and 80 % acetonitrile:water:TFA (90:9.9:0.1 v/v/v) within 3 minutes followed by an isocratic step for another 3 min. Flow rate was 0.5 mL/min and the column compartment temperature was 50 °C.



Mass Spectrometry - Recombinant mouse GM-CSF protein (Active) (ab259385)

Mass – 1 Da (+237.23 Da: Pi[3]; + 203 Da: HexNAc[1]; +162 Da: Hex[1]) (Calc. mass 14211.77 Da).

The spectrum was recorded with a 6545XT AdvanceBio LC/Q-TOF (Agilent Technologies) and a MabPac RP column (42.1x50 mm, 4 μm, Thermo Scientific). 5 μL of purified protein was injected and the gradient run from 85 % water:FA (99.9:0.1 v/v) and 15 % acetonitrile:FA (90:9.9:0.1 v/v/v) to 55 % water:FA (99.9:0.1 v/v) and 45 % acetonitrile:FA (90:9.9:0.1 v/v/v) within 3 minutes followed by an isocratic step for another 2.5 min. Flow rate was 0.4 mL/min and the column compartment temperature was 60 °C. Data was analysed and deconvoluted using the Bioconfirm software (Agilent Technologies).

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

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