

Recombinant human M-CSF protein (Active) ab259396

4 图像

描述	
产品名称	重组人M-CSF蛋白(Active)
生物活性	Fully active compared to a standard. The ED ₅₀ as determined by the dose-dependant proliferation of MNFS-60 cells is 5.164ng/mL corresponding to a Specific Activity of 1.94 x 10 ⁵ IU/mg.
纯度	>= 95 % SDS-PAGE. Purity by HPLC >=95%.
内毒素水平	< 0.005 Eu/μg
表达系统	HEK 293 cells
Accession	<u>P09603</u>
蛋白长度	Protein fragment
无动物成分	Yes
无载体	是
性质	Recombinant
种属	Human
序列	EEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFVDQEQ LKDPVCYL KKAFLLVQYIMEDTMRFRDNTPNIAIAIVQLQELSLRLKSCFT KDYEEDHK ACVRTFYETPLQLLEKVKNVFNETKNLLDKDWNIFSKNCNNS FAECSSQD VVTKPDCN
预测分子量	19 kDa
实际分子量	19 kDa
分子量信息	M +1 Da by ESI TOF (Calc. mass 18513 Da) EEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFVDQEQLKDPVCYLKKAFLLVQYIMEDT MRFRDNTPNIAIAIVQLQELSLRLKSCFTKDYEEDHKACVRTFYETPLQLLEKVKNVFNETKNLL DKDWNIFSKNCNNSFAECSSQDVVTKPDCN
氨基酸	33 to 190
额外的序列信息	N-terminal Glycine
技术指标	

Our **Abpromise guarantee** covers the use of **ab259396** in the following tested applications.

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

应用	SDS-PAGE Functional Studies Mass Spectrometry Cell Culture HPLC
形式	Lyophilized
补充说明	This protein is filter sterilised prior to aliquoting and lyophilisation. All aliquoting and lyophilisation steps are performed in a sterile environment

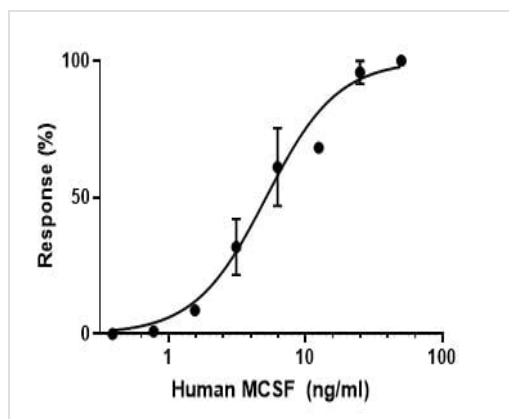
制备和贮存

稳定性和存储	Shipped at Room Temperature. Store at Room Temperature. pH: 6.00 Constituents: 0.727% Dibasic monohydrogen potassium phosphate, 0.248% Monobasic dihydrogen potassium phosphate, 10.26% Trehalose Buffer reconstituted from. This product is an active protein and may elicit a biological response in vivo, handle with caution.
复溶	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.

常规信息

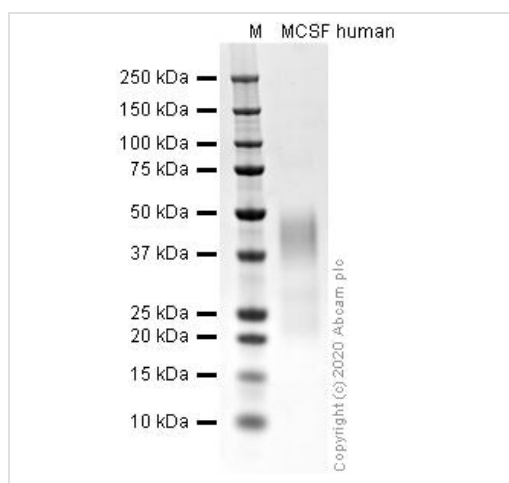
功能	Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.
翻译后修饰	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.
细胞定位	Cell membrane and Secreted > extracellular space.

图片



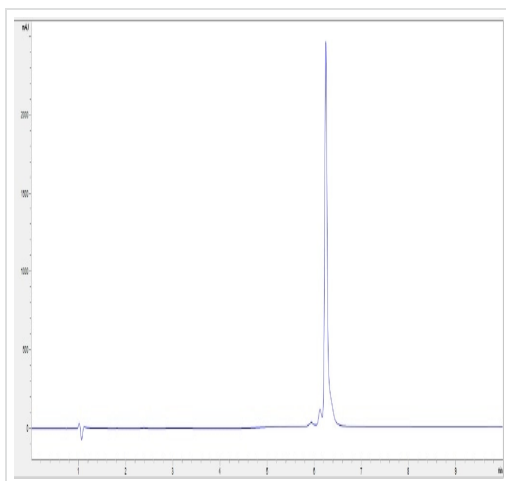
Fully active compared to a standard. The ED₅₀ as determined by the dose-dependant proliferation of MNFS-60 cells is 5.164ng/mL corresponding to a Specific Activity of 1.94 x 10⁵ IU/mg.

Functional Studies - Recombinant human M-CSF protein (ab259396)



SDS-PAGE analysis of ab259396.

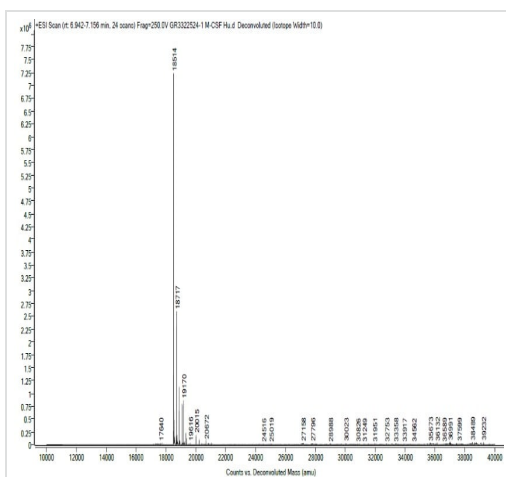
SDS-PAGE - Recombinant human M-CSF protein (ab259396)



HPLC - Recombinant human M-CSF protein
(ab259396)

Purity 100%

The spectrum was recorded using a 1260 Infinity II HPLC system with DAD and a MabPac RP column (3.0x100 mm, 4 μ m). 5 μ L 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 $^{\circ}$ C.



Mass Spectrometry - Recombinant human M-CSF
protein (ab259396)

M + 1 Da (Calc mass 18513 Da)

The spectrum was recorded with a 6545XT AdvanceBio LC/Q-TOF (Agilent Technologies) and a MabPac RP column (42.1x50 mm, 4 μ m, Thermo Scientific). 5 μ L 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 $^{\circ}$ 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"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors