

Product datasheet

Recombinant rat M-CSF protein (Active) ab56288

1 References

Description

Product name	Recombinant rat M-CSF protein (Active)
Biological activity	The ED₅₀ was determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is ≤ 5.0 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^5$ units/mg.
Purity	> 95 % SDS-PAGE. Greater than 98% by SDS-PAGE gel and HPLC analyses.
Expression system	Escherichia coli
Accession	<u>Q8JZQ0</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	MEVSEHCSHM IGNGHLQILQ QLIDSQMETA CLIEYKFVDQ EQLDDPVCYL KKAFLVLVQVI IEETMRFKDN TPNANATERL QELSMKLNLC FIKDYKEQNE ACVQTYKESP LRLLEKIKNF FNETKNFLEK DWNIFSKNCN DSLAKCSSRD VVTKP
Predicted molecular weight	36 kDa
Amino acids	33 to 186
Additional sequence information	Recombinant Rat M-CSF is a 36.2 kDa homodimeric protein consisting of two 155 amino acid polypeptide subunits.

Specifications

Our **Abpromise guarantee** covers the use of **ab56288** in the following tested applications.

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

Applications	SDS-PAGE Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers.

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.
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.
Cellular localization	Cell membrane and Secreted > extracellular space.

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.com/abpromise> or contact our technical team.

Terms and conditions

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