

Product datasheet

Recombinant human GMCSF + IL3 protein ab73275

Description

Product name	Recombinant human GMCSF + IL3 protein
Biological activity	Specific Activity of 5×10^6 IU/mg.
Purity	> 95 % SDS-PAGE. This product is purified by proprietary chromatographic techniques. Purity: Greater than 95.0% as determined by: 1. Analysis by RP-HPLC. 2. Analysis by SDS-PAGE.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	30 kDa

Specifications

Our **Abpromise guarantee** covers the use of **ab73275** 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

SDS-PAGE

Form Lyophilized

Additional notes

Results indicate that this product can stimulate multilineage hematopoiesis in vivo and enhance neutrophil and platelet recovery following chemotherapy and bone marrow transplantation (BMT). These results suggest that this product elicits the biological effects of both its component cytokines and represents a novel means of delivering two independent but interactive cytokines in combination.

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
pH: 7.40

Constituents: 0.0268% PBS, 0.1% BSA

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

Reconstitution

Reconstitute this product in sterile 18MΩ/cm H₂O at not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

General Info

Relevance

GMCSF is a cytokine that controls the production, differentiation and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. IL3 is a potent growth promoting cytokine. This cytokine is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. This cytokine has been shown to also possess neurotrophic activity and it may be associated with neurologic disorders. Synergism of IL3 together with GMCSF causes a rapid rise in neutrophils due to GMCSF and a slower rise in platelets due to IL3 which has strong stimulated effect on hematopoietic cells.

Cellular localization

GMCSF: Secreted. IL3: Secreted.

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.

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