

Product datasheet

Recombinant human IL3 protein ab83685

3 Images

Overview

Product name Recombinant human IL3 protein
Protein length Full length protein

Description

Nature Recombinant
Source HEK 293 cells

Amino Acid Sequence

Species Human
Sequence Theoretical Sequence:
 APMTQTTSLKTSWVNCNSNMIDEIITHLKQPPLPLLDFFNNLNGEDQDILME
 >NNLRRPN
 LEAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIH
 IKGDWNEFRRKLTFFYL KTLNAQAQQTTLAIF

Specifications

Our [Abpromise guarantee](#) covers the use of **ab83685** in the following tested applications.

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

Biological activity Activity: The ED₅₀ of ab83685 is typically 0.1- 0.4 ng/ml as measured using the human growth factor dependent TF1 cell line.

Applications SDS-PAGE
 Functional Studies

Purity > 95 % SDS-PAGE.

Form Lyophilised

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at +4°C.
 Preservative: None

Constituents: 10% Trehalose, 1% Human serum albumin, PBS

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

Reconstitution

It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

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.

This CSF induces granulocytes, macrophages, mast cells, stem cells, erythroid cells, eosinophils and megakaryocytes.

Tissue specificity

Activated T-cells, mast cells, natural killer cells.

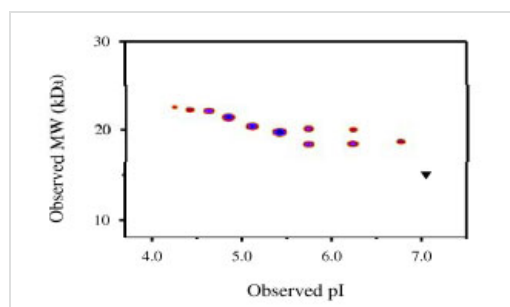
Sequence similarities

Belongs to the IL-3 family.

Cellular localization

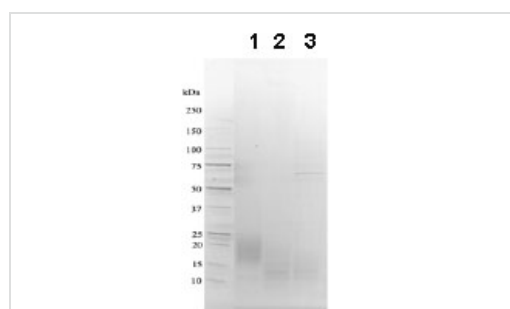
Secreted.

Images



Densitometry of protein isoforms visualised by 2-DE. The triangle indicates the theoretical MW and pI of the protein.

Functional Studies - IL3 protein (Active) (ab83685)



SDS-PAGE - IL3 protein (Active) (ab83685)

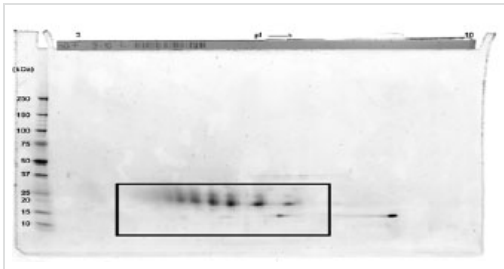
1D gel data:

Lane 1 ab83685

Lane 2 ab83685 treated with PNGase F to remove potential N-linked glycans

Lane 4 ab83685 treated with a glycosidase cocktail to remove potential N- and O-linked glycans.

5 µg protein loaded per lane; Deep Purple™ stained. Drop in MW after treatment with PNGase F indicates presence of N-linked glycans. Faint bands in lane 2 and lane 3 are glycosidase enzymes.



SDS-PAGE - IL3 protein (Active) (ab83685)

2D gel data:

A sample of ab83685 without carrier protein was reduced and alkylated and focused on a 3-10 IPG strip then run on a 4-20% Tris-HCl 2D gel. 40 µg protein loaded per lane; Deep Purple™ stained.

Spot train indicates presence of multiple isoforms of ab83685.

Spots within the spot train were cut from the gel and identified as IL-3 by protein mass fingerprinting.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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 <http://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