

Product datasheet

Recombinant human IL3 protein ab83685

3 Images

Overview

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**Product name** Recombinant human IL3 protein  
**Protein length** Full length protein

Description

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**Nature** Recombinant  
**Source** HEK 293 cells

Amino Acid Sequence

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

Specifications

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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 ED<sub>50</sub> 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

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**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.

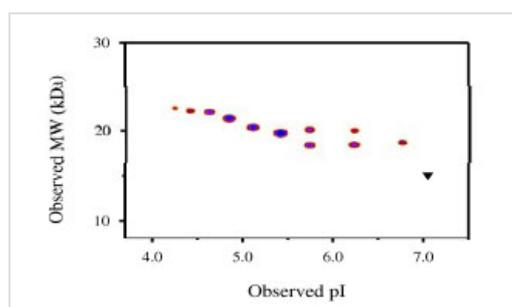
### Sequence similarities

Belongs to the IL-3 family.

### Cellular localization

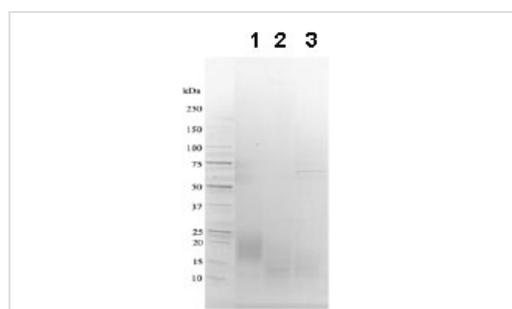
Secreted.

## Images



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

Functional Studies - Recombinant human IL3 protein (ab83685)



SDS-PAGE - Recombinant human IL3 protein (ab83685)

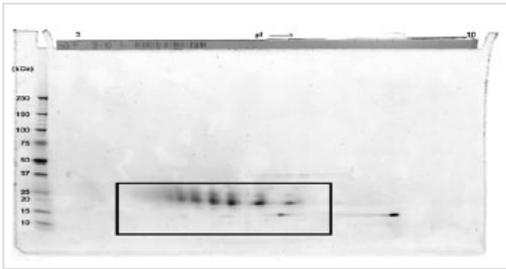
1D gel data:

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 - Recombinant human IL3 protein  
(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"

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