

Product datasheet

Recombinant human IL-1 alpha protein (Active)  
ab268665

2 Images

Description

<b>Product name</b>	Recombinant human IL-1 alpha protein (Active)
<b>Biological activity</b>	The ED <sub>50</sub> of ab268665 was determined by the dose-dependent stimulation of murine D10S cells and was found to be ≤ 0.002ng/ml.
<b>Purity</b>	≥ 95 % SDS-PAGE.
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<a href="#">P01583</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Additional sequence information</b>	Mature chain.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab268665** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Lyophilized

Preparation and Storage

<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituent: 100% Tris buffered saline  Lyophilized from a 0.2μm filtered solution.
------------------------------	--

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

## Reconstitution

A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.

## General Info

---

### Function

Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.

### Sequence similarities

Belongs to the IL-1 family.

### Domain

The similarity among the IL-1 precursors suggests that the amino ends of these proteins serve some as yet undefined function.

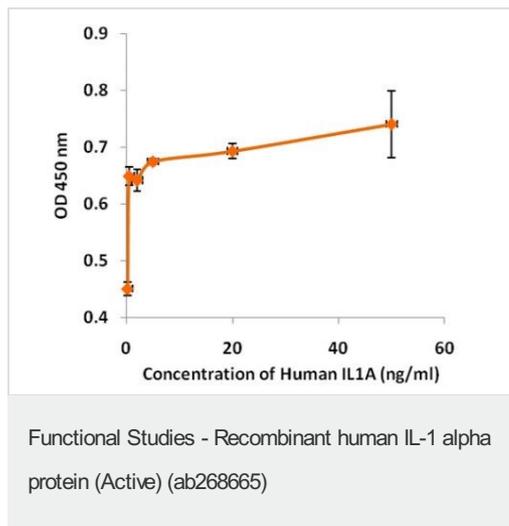
### Cellular localization

Secreted. The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins.

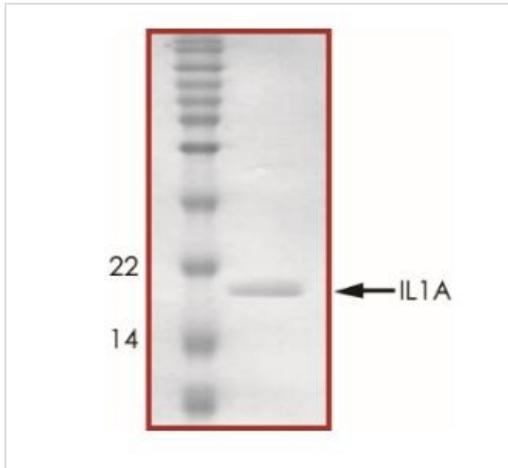
---

## Images

---



The ED<sub>50</sub> of ab268665 was determined by the dose-dependent stimulation of murine D10S cells and was found to be  $\leq 0.002$  ng/ml.



SDS-PAGE - Recombinant human IL-1 alpha protein  
(Active) (ab268665)

ab268665 resolved on a 15% SDS-PAGE gel under reducing conditions.

Stained with coomassie blue.

MW ~18 kDa.

**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