

Human IL-1 alpha / IL-1F1 Protein, His Tag, low endotoxin (MALS verified)

Catalog # ILA-H5216



BIOSYSTEMS
Acro

Synonyms

IL1A, IL-1 ALPHA, IL1F1, IL1 α

Source

Human IL-1 alpha, His Tag (ILA-H5216) is expressed from human 293 cells (HEK293). It contains AA Ser 113 - Ala 271 (Accession # [P01583-1](#)).

Predicted N-terminus: Ser 113

Molecular Characterization

IL-1 alpha(Ser 113 - Ala 271)
P01583-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 19.9 kDa. The protein migrates as 25-27 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

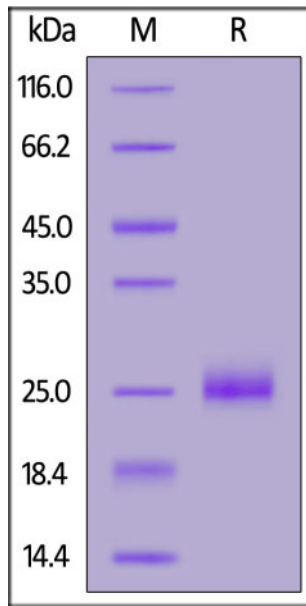
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

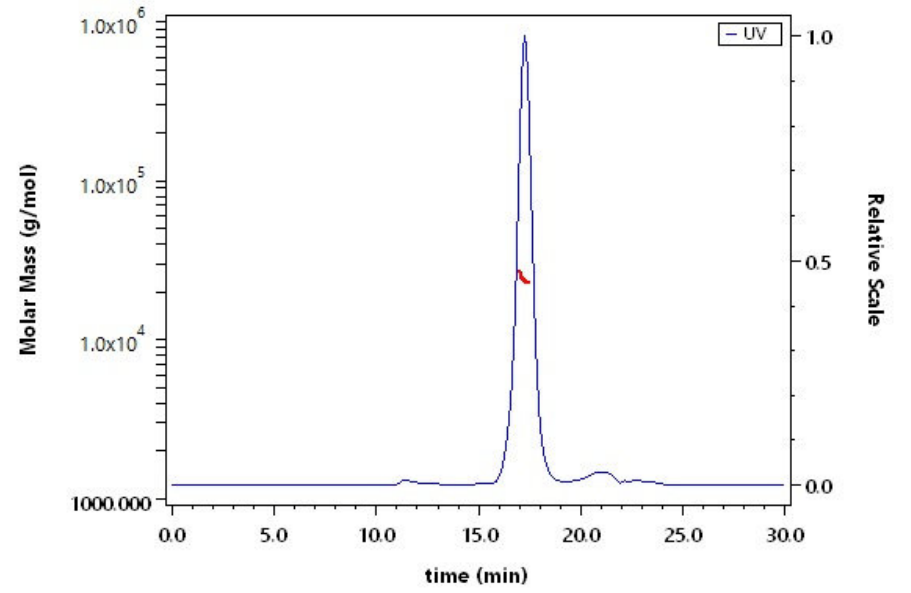
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



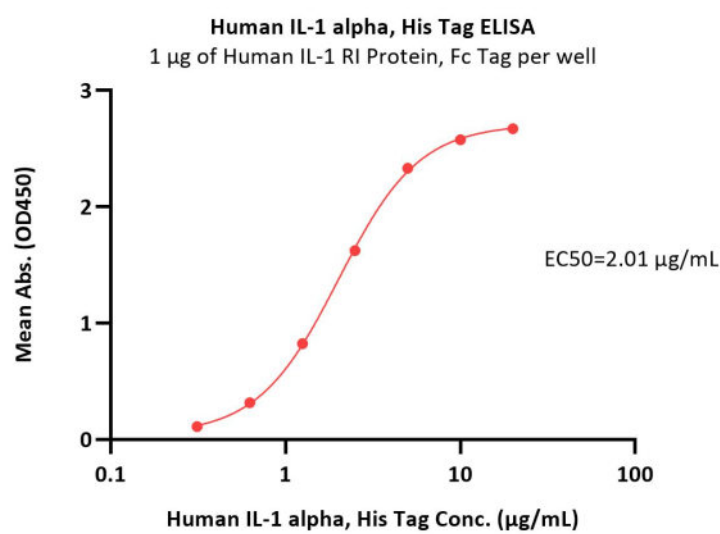
Human IL-1 alpha, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human IL-1 alpha, His Tag (Cat. No. ILA-H5216) is more than 95% and the molecular weight of this protein is around 20-30 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human IL-1 RI Protein, Fc Tag (Cat. No. ILI-H5253) at 10 µg/mL (100 µL/well) can bind Human IL-1 alpha, His Tag (Cat. No. ILA-H5216) with a linear range of 0.3-2.5 µg/mL (QC tested).

Background

Interleukin-1 alpha (IL1 α) is also known as IL-1A, IL1, IL1-ALPHA, IL1F1, and is a cytokine of the interleukin-1 family. IL1 α possesses a wide spectrum of metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. It binds to the interleukin-1 receptor. IL-1 α is constitutively produced by epithelial cells. It is found in substantial amounts in normal human epidermis and is distributed in a 1:1 ratio between living epidermal cells and stratum corneum. The constitutive production of large amounts of IL-1 α precursor by healthy epidermal keratinocytes interfere with the important role of IL-1 α in immune responses, assuming skin as a barrier, which prevents the entry of pathogenic microorganisms into the body. In vitro, IL-1 α possesses biological effect on cells in the picomolar to femtomolar range. In vivo, Shortly after an onset of an infection into organism, IL-1 α activates a set of immune system response processes.

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