

**Synonym**IL1A,IL-1 ALPHA,IL1F1,IL1 $\alpha$ **Source**

Biotinylated Mouse IL-1 alpha, His,Avitag(ILA-M82E8) is expressed from human 293 cells (HEK293). It contains AA Ser 115 - Ser 270 (Accession # [P01582-1](#)).

Predicted N-terminus: Ser 115

**Molecular Characterization**

IL-1 alpha(Ser 115 - Ser 270) P01582-1	Poly-his	Avi
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This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 21.6 kDa. The protein migrates as 27-30 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**Less than 1.0 EU per  $\mu$ g by the LAL method.**Purity**

&gt;95% as determined by SDS-PAGE.

&gt;90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22  $\mu$ 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.*

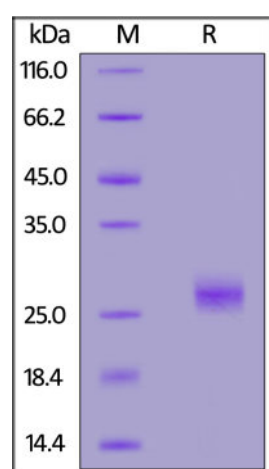
**Storage**

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

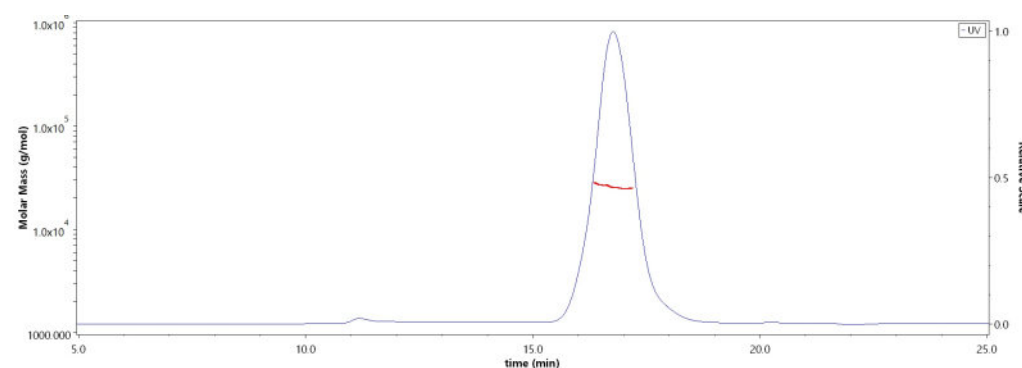
*Please avoid repeated freeze-thaw cycles.*

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.

**SDS-PAGE**

Biotinylated Mouse IL-1 alpha, His,Avitag 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 Biotinylated Mouse IL-1 alpha, His,Avitag (Cat. No. ILA-M82E8) is more than 90% and the molecular weight of this protein is around 21-31 kDa verified by SEC-MALS.

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Interleukin-1 alpha (IL1a) is also known as IL-1A, IL1, IL1-ALPHA,IL1F1,and is a cytokine of the interleukin-1 family. IL1a 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 $\alpha$  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 $\alpha$  precursor by healthy epidermal keratinocytes interfere with the important role of IL-1 $\alpha$  in immune responses, assuming skin as a barrier, which prevents the entry of pathogenic microorganisms into the body. In vitro, IL-1 $\alpha$  possesses biological effect on cells in the picomolar to femtomolar range. In vivo, Shortly after an onset of an infection into organism, IL-1 $\alpha$  activates a set of immune system response processes.

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