Catalog # ILA-H5216



Synonym

IL1A,IL-1 ALPHA,IL1F1,IL1α

Source

Human IL-1 alpha, His Tag(ILA-H5216) is expressed from human 293 cells (HEK293). It contains AA Ser 113 - Ala 271 (Accession # <u>P01583-1</u>). 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 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>90% 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.

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:

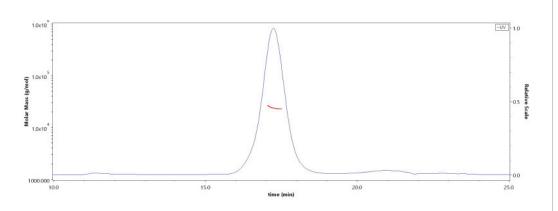
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

kDa	м	R
116.0		
66.2	-	
45.0	-	
35.0	—	
25.0	_	-
18.4		
14.4	_	

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 90% and the molecular weight of this protein is around 20-30 kDa verified by SEC-MALS.



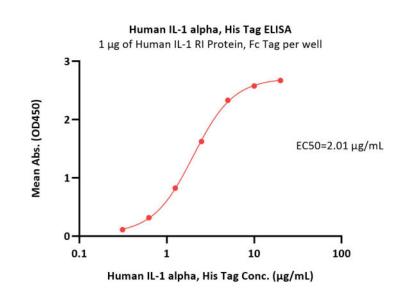
Bioactivity-ELISA



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

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

Background

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 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.

Clinical and Translational Updates

Please contact us via <u>TechSupport@acrobiosystems.com</u> if you have any question on this product.



>>> www.acrobiosystems.com

