

Human CellExp IL-1 Alpha, human recombinant protein
IL1A, IL-1A, IL1, IL1-ALPHA, IL1ALPHA, IL1F1, IL-1 α , IL1 α , Interleukin-1 alpha,
Interleukin-1, Inter
Catalog # PBV10900r

Specification

Human CellExp IL-1 Alpha, human recombinant protein - Product info

Primary Accession
Calculated MW

[P01583](#)
Calculated MW of 18.0 kDa with no tag.
DTT-reduced protein migrates as 22 kDa.
in SDS-PAGE KDa

Human CellExp IL-1 Alpha, human recombinant protein - Additional Info

| | |
|--|-----------------------|
| Gene ID | 3552 |
| Gene Symbol | IL-1a |
| Other Names | |
| IL1A, IL-1A, IL1, IL1-ALPHA, IL1ALPHA, IL1F1, IL-1 α , IL1 α , Interleukin-1 alpha, Interleukin-1, Interleukin | |
| Gene Source | Human |
| Source | HEK 293 cells |
| Assay&Purity | SDS-PAGE; $\geq 97\%$ |
| Assay2&Purity2 | N/A; |
| Recombinant | Yes |
| Target/Specificity | |
| IL-1a | |

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 $\mu\text{g/ml}$. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format

Lyophilized powder

Storage

-20°C; Lyophilized from 0.22 μm filtered solution in in PBS, pH 7.4. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp IL-1 Alpha, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp IL-1 Alpha, human recombinant protein - Images

Human CellExp IL-1 Alpha, human recombinant protein - 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.

Human CellExp IL-1 Alpha, human recombinant protein - References

March C.J.,et al.Nature 315:641-647(1985).
Furutani Y.,et al.Nucleic Acids Res. 14:3167-3179(1986).
Furutani Y.,et al.Nucleic Acids Res. 13:5869-5882(1985).
Kotenko S.V.,et al.Dokl. Akad. Nauk SSSR 309:1005-1008(1989).
Gubler U.,et al.J. Immunol. 136:2492-2497(1986).