

IL-1 Alpha, Human CellExp™, human recombinant

CATALOG #:	7275-10	10 µg
ALTERNATE NAMES:	IL1A, IL-1A, IL1, IL1-ALPHA, IL1ALPHA, IL1F1, IL-1α, IL1α, Interleukin-1 alpha, Interleukin-1, Interleukin	
SOURCE:	HEK 293 cells (Ser113 - Ala271)	
PURITY:	≥ 97% by SDS-PAGE gel	
MOL. WEIGHT:	Calculated MW of 18.0 kDa with no tag. DTT-reduced protein migrates as 22 kDa. in SDS-PAGE	
ENDOTOXIN LEVEL:	<1 EU/µg by LAL method	
FORM:	Lyophilized	

FORMULATION: 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.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

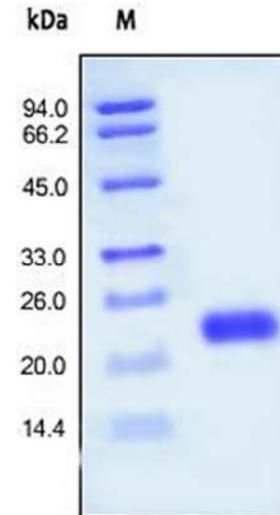
RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: 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-1α 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-1α precursor by healthy epidermal keratinocytes interfere with the important role of IL-1α in immune responses, assuming skin as a barrier, which prevents the entry of pathogenic microorganisms into the body. In

vitro, IL-1α possesses biological effect on cells in the picomolar to femtomolar range. In vivo, shortly after an onset of an infection into organism, IL-1α activates a set of immune system response processes.

BIOLOGICAL ACTIVITY:

The bio-activity was determined by dose-dependent stimulation of the proliferation of mouse D10S cells. The ED₅₀ <1pg/ml, corresponding to a specific activity of >1X10⁹ Unit/mg.



Human recombinant IL-1 alpha

RELATED PRODUCTS:

- IL-1 alpha Antibody (Cat # 5125-100)
- IL-1 alpha Antibody (Cat # 5126-100)
- IL-1 beta Antibody (Cat # 5128-100)
- IL-1 beta Antibody (Cat # 5128G-100)
- IL-1 beta Antibody (Cat # 5129-100)
- IL-1 beta, rat recombinant (Cat # 4130-50)

FOR RESEARCH USE ONLY! Not to be used in humans.