

CHASELECTION

**Recombinant Human IL-1 alpha/IL-1F1,
Tag Free**

货号(Catalog Number): CY120FXXXX(L)

别名(synonym):Hematopoietin-1; IL1 alpha; IL-1 alpha; IL1; IL1A;
IL-1A; IL1-ALPHA; IL1F1; IL-1F1;BAF**来源(Source):** Human embryonic kidney cell,
HEK293-derived human IL-1 alpha/IL-1F1 protein**蛋白结构 (Structure):**

该蛋白不含标签

基因 ID: Q53QF9**氨基酸序列:**

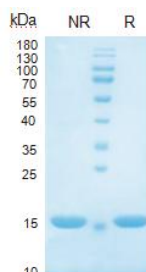
Ser113-Ala271

分子量大小(MW):

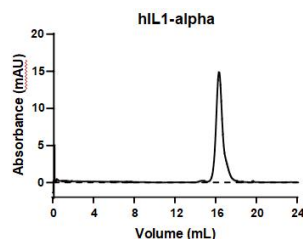
18.0 kDa (Monomer)

纯度 (Purity):

> 95%, determined by SDS-PAGE

SDS-PAGE

4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

Gel-filtration

Size-exclusion chromatography of recombinant human IL1-alpha protein (280 nm absorbance)

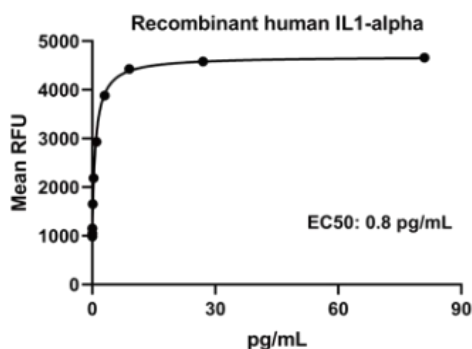
**内毒素含量 (Endotoxin):**

<0.010 EU per 1 ug of the protein by the LAL method

制剂(Formulation):

Solution protein. Dissolved in sterile PBS buffer. This solution can be diluted into other aqueous buffers.

Centrifuge the vial prior to opening.

活性检测 (Biological Activity):

Recombinant human IL1-alpha stimulates cell proliferation of the D10.G4.1 mouse helper T cell line.

储存与运输(Storage):

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 °C as supplied.

Shipping with dry ice.

产品背景介绍 (Production):

Interleukin 1 (IL-1), is a name that designates two proteins, IL-1 alpha and IL-1 beta, which are the products of distinct genes, but which show approximately 25% amino acid sequence identity and which recognize the same cell surface receptors. Although IL-1 production is generally considered to be a consequence of inflammation, recent evidence suggests that IL-1 is also temporarily upregulated during bone formation and the menstrual cycle and can be induced in response to nervous system stimulation. In response to classic stimuli produced by

inflammatory agents, infections or microbial endotoxins, a dramatic increase in the production of IL-1 by macrophages and various other cells is seen. Cells in particular known to produce IL-1 include osteoblasts, monocytes, macrophages, keratinocytes, Kupffer cells, hepatocytes, thymic and salivary gland epithelium, Schwann cells, fibroblasts and glia (oligodendroglia, astrocytes and microglia). IL-1 alpha and IL-1 beta are both synthesized as 31 kDa precursors that are subsequently cleaved into proteins with molecular weights of approximately 17,000 Da. Neither precursor contains a typical hydrophobic signal peptide sequence and most of the precursor form of IL-1 alpha remains in the cytosol of cells, although there is evidence for a membrane-bound form of the precursor form of IL-1 alpha. The IL-1 alpha precursor reportedly shows full biological activity in the EL-4 assay. Among various species, the amino acid sequence of mature IL-1 alpha is conserved 60% to 70% and human IL-1 has been found to be biologically active on murine cell lines. Both forms of IL-1 bind to the same receptors, designated type I and type II. Evidence suggests that only the type I receptor is capable of signal transduction and that the type II receptor may function as a decoy, binding IL-1 and thus preventing binding of IL-1 to the type I receptor.

