

Active Recombinant Human IL1A

Cat. No. IL1A-337H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IL1A (P01583, 113 a.a.-271 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
Description	Interleukin-1 alpha (IL-1 μ) is a protein that in humans is encoded by the IL1A gene. The protein encoded by this gene is a cytokine of the interleukin-1 family. Interleukin-1 alpha 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.
Sequence	SAPFSFLS NVKYNFMRII KYEFILNDAL NQSIIRANDQ YLTAAALHNL DEAVKFDMGA YKSSKDDAKI TVILRISKQTQ LYVTAQDEDQ PVLLKEMPEI PKTITGSETN LLFFWETHGT KNYFTSVAHP NLFIATKQDY WVCLAGGPPS ITDFQILENQ A
Theoretical MW (kDa)	18
Form	Lyophilized
Preparation Method	Escherichia coli expression system
Purity	> 97% by SDS-PAGE and HPLC

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Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED50 was determined by the dose-dependent stimulation of murine D10S cells is μ 0.002 ng/mL, corresponding to a specific activity of μ 2 x 109 units/mg
Application	SDS-PAGE
Storage Buffer	Lyophilized from PBS, pH 7.0
Storage	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P01583
Pathways	Apoptosis; Cytokine-cytokine receptor interaction; Graft-versus-host disease; Hematopoietic cell lineage; MAPK signaling pathway; Prion diseases; Type I diabetes mellitus

GENE INFORMATION

Gene Name	IL1A interleukin 1, alpha [Homo sapiens]
Official Symbol	IL1A
Synonyms	IL1A; interleukin 1, alpha; IL1; IL-1A; IL1F1; IL1-ALPHA; preinterleukin 1 alpha; hematopoietin-1; pro-interleukin-1-alpha; Interleukin-1 alpha; IL-1 alpha; Hematopoietin-1; IL1A (IL1F1)
Gene ID	3552

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mRNA Refseq	NM_000573
Protein Refseq	NP_000566
MIM	147760
Chromosome Location	2q14
Function	cytokine activity; interleukin-1 receptor binding; protein binding
PDBrendering based on 2ila.	