

Recombinant Mouse interleukin 1, alpha, His-tagged

Cat. No. IL1a-640M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IL1a, 115-270 aa Mouse, His tag, E.coli
Species	Mouse
Source	E.coli
ProteinLength	115-270 a.a.
Description	IL-1a is produced by activated macrophages, stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. This protein is involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells. Recombinant mouse IL1a protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In Phosphate buffer saline (pH 7.4) containing 10% glycerol
Molecular Mass	20.4 kDa (179aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSAPYTYQ SDLRYKLMKL VRQKFVMNDS LNQTIYQDVD KHYLSTTWLN DLQQEVKFDY YAYSSGGDDS KYPVTLKISD SQLFVSAQGE DQPVLLKELP ETPKLITGSE TDLIFFWKSI NSKNYFTSAA YPELFATKE QSRVHLARGL PSMTDFQIS
Purity	>85% by SDS - PAGE

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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	Il1a interleukin 1 alpha [<i>Mus musculus</i>]
Official Symbol	IL1a
Synonyms	IL1A; interleukin 1 alpha; interleukin-1 alpha; IL-1 alpha; Il-1a;
Gene ID	16175
mRNA Refseq	NM_010554
Protein Refseq	NP_034684
Pathway	Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis signaling pathway, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response (BioCarta), organism-specific biosystem; FAS pathway and Stress induction of HSP regulation, organism-specific biosystem;
Function	copper ion binding; cytokine activity; interleukin-1 receptor binding;