

Recombinant Mouse IL-1 alpha

Cat. No. IL1a-92M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse IL-1 alpha was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Description	The IL-1 family of cytokines encompasses eleven proteins that each share a similar β -barrel structure and bind to Ig-like receptors. Several of the well characterized members of the IL-1-like cytokines play key roles in the development and regulation of inflammation. IL-1 α (IL-1F1), IL-1 β (IL-1F2), and IL-18 (IL-1F4) are well-known inflammatory cytokines active in the initiation of the inflammatory reaction and in driving Th1 and Th17 inflammatory responses. In contrast, IL-1 receptor antagonist (IL-1ra; IL-1F3) and IL-36 receptor antagonist (IL-36ra; IL-1F5) reduce inflammation by blocking the binding of the agonist receptor ligands. IL-33 (IL-1F11) is thought to function as an "alarmin" released following cell necrosis to alerting the immune system to tissue damage or stress. The biological properties of IL-37 (IL-1F7) are mainly those of down-regulating inflammation.
Source	Yeast
Species	Mouse
Form	Lyophilized
Molecular Mass	18.0 kDa
AA Sequence	SAPYTYQSDL RYKLMKLVQR KFMNDSLNLQ TIYQDVDPKH LSTTWLNDLQ QEVKFDMYAY SSGGDDSKYP VTLKISDSQL FVSAQGEGQP VLLKELPETP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KLITGSETDL IFFWKSINSK NYFTSAAYPE LFIATKEQSR VHLARGLP SM TDFQIS
(156)

Applications

The Mouse IL-1 alpha protein can be used in cell culture, as an IL-1 alpha ELISA Standard, and as a Western Blot Control.

Storage

-20 C

GENE INFORMATION

Gene Name

Il1a interleukin 1 alpha [*Mus musculus*]

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;

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