

## Active Recombinant Equine IL1A

Cat. No. IL1A-207E Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Equine IL1A was expressed in Yeast.
<b>Species</b>	Equine
<b>Source</b>	Yeast
<b>Description</b>	<p>The IL-1 family of cytokines encompasses eleven proteins that each share a similar <math>\beta</math>-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<math>\alpha</math> (IL-1F1), IL-1<math>\beta</math> (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.</p>
<b>Form</b>	Lyophilized.
<b>Bio-activity</b>	In testing
<b>Molecular Mass</b>	18.1 kDa
<b>AA Sequence</b>	SVHYNFQSNT KYNFMRIVNH QCTLNDALNQ SVIRDTSGQY LATAALNNLD

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DAVKFDMGAY TSEEDSQLPV TLRISKTRLF VSAQNEDEPV LLKEMPDPK  
 TIKDETLLF FWERHGSKNY FKSVAHPKLF IATKQGKLVH MARGQPSITD  
 FQILDNQF (158)

**Purity** >95% as visualized by SDS-PAGE analysis.

**Storage** Stable for up to twelve months from date of receipt at °C. Stable for at least 3 months when stored in working aliquots with a carrier protein at °C. Avoid repeated freeze/thaw cycles.

**Reconstitution** Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

## GENE INFORMATION

**Gene Name** IL1A interleukin 1, alpha [ *Equus caballus* (horse) ]

**Official Symbol** IL1A

**Synonyms** IL1A; interleukin 1, alpha; interleukin-1 alpha; IL-1 alpha

**Gene ID** [100064969](#)

**mRNA Refseq** [NM\\_001082500](#)

**Protein Refseq** [NP\\_001075969](#)

**UniProt ID** Q28385

**Chromosome Location** 15

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**Pathway**

Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Inflammatory bowel disease (IBD)

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