

Active Recombinant Equine IL1A

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

SPECIFICATION

Product Overview	Recombinant Equine IL1A was expressed in Yeast.
Species	Equine
Source	Yeast
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-1α (IL-1F1), IL-1β (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.
Form	Lyophilized.
Bio-activity	In testing
Molecular Mass	18.1 kDa
AA Sequence	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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