

Active Recombinant Equine Interleukin 6 (Interferon, Beta 2)

Cat. No. IL6-258E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Equine IL-6 was expressed in Yeast. MW= 20.6 kDa (181 aa).
Species	Equine
Source	Yeast
Description	Interleukin-6 (IL-6) is a protein that in humans is encoded by the IL6 gene. IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. In terms of host response to a foreign pathogen, IL-6 has been shown, in mice, to be required for resistance against the bacterium, <i>Streptococcus pneumoniae</i> . IL-6 is also a "myokine," a cytokine produced from muscle, and is elevated in response to muscle contraction.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.
Amino Acid Sequence	TPLPLGEDET TSNGPLLTTA DKTKQHIKIYI LGKISALKNE MCNNFSKCEN SKEVLAENNL NLPKMAEKDG CFQSGFNQET CLMKITTGLS EFQIYLEYLQ NEFKGEKENI KTMQISTKVL VQILMQMKMN PEVTTDPDPTA KSSLLAKLHS

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QNEWLKNTTT HLILRSLEDF LQFSLRAVRI M.

Bioactivity

The biological activity of recombinant equine IL-6 was measured in a cell proliferation assay using the mouse B9 cell line. The ED50 for this effect is typically 0.05 – 1.0 ng/mL.

Stability And Storage

Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name

IL6 interleukin 6 (interferon, beta 2) [*Equus caballus*]

Synonyms

interleukin 6 (interferon, beta 2); IL6; IL-6; interleukin-6; interleukin 6

Gene ID

100034196

mRNA Refseq

NM_001082496.1

Protein Refseq

NP_001075965.1

UniProt ID

Q95181

**Chromosome
Location**

4

Pathway

Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Graft-versus-host disease; Hematopoietic cell lineage; Hypertrophic cardiomyopathy (HCM); Intestinal immune network for IgA production; Jak-STAT signaling pathway; NOD-like receptor signaling pathway; Pathways in cancer; Prion diseases; Toll-like receptor

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signaling pathway

PDB rendering based
on 1ALU.



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