

Active Recombinant Swine IL6

Cat. No. IL6-16S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Swine IL-6 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Pig
Source	Yeast
Description	Interleukin-6 (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. IL-6 is also produced from muscle, and is elevated in response to muscle contraction. It is significantly elevated with exercise, and precedes the appearance of other cytokines in the circulation. Osteoblasts secrete IL-6 to stimulate osteoclast formation. Smooth muscle cells in the tunica media of many blood vessels also produce IL-6 as a pro-inflammatory cytokine. The role of IL-6 as an anti-inflammatory cytokine is mediated through its inhibitory effects on TNF-alpha and IL-1, and activation of IL-1ra and IL-10.
Form	Lyophilized without carrier protein.
Bio-activity	The biological activity of recombinant swine IL-6 was measured in a cell proliferation assay using the mouse B9 cell line. The ED50 for this effect is typically 1-10 pg/mL.
Molecular Mass	Swine IL-6 has a predicted molecular weight of 20.9 kDa.

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AA Sequence	GRLEEDAKGD ATSDKMLFTS PDKTEELIKY ILGKISAMRK EMCEKYEKCE NSKEVLAENN LNLPKMAEKD GCFQSGFNQE TCLMRITTGL VEFQIYLDYL QKEYESNKGK VEAVQISTKA LIQTLRQKGK NPDKATTPNP TTNAGLLDKL QSQNEWMKNT KIILILRSLE DFLQFSLRAI RIM (183)
Purity	>95% as visualized by SDS-PAGE analysis
Applications	The Swine IL-6 protein can be used in cell culture, as an IL-6 ELISA Standard, and as a Western Blot Control.
Storage	Stable for up to twelve months from date of receipt at -20 oC. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20 oC. Avoid repeated freeze/thaw cycles.
Reconstitution	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

GENE INFORMATION

Gene Name	IL6 interleukin 6 (interferon, beta 2) [<i>Sus scrofa</i> (pig)]
Official Symbol	IL6
Synonyms	IL6; nterleukin 6 (interferon, beta 2); interleukin-6; IL-6; interleukin-6 protein
Gene ID	399500
mRNA Refseq	NM_214399
Protein Refseq	NP_999564

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UniProt ID	P26893
Chromosome Location	9q14-q15; 9
Pathway	African trypanosomiasis; Cellular Senescence; Cytokine Signaling in Immune system

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