

Active Recombinant Swine IL-6

Cat. No. IL6-29S **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.
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.
Source	Yeast
Species	Swine
Form	Lyophilized
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	20.9 kDa
AA Sequence	GRLEEDAKGDATSDKMLFTSPDKTE ELIKYILGKISAMRKEMCEKYEKCE

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NSKEVLAENNLPKMAEKDGCFQS GFNQETCLMRITTGLVEFQIYLDYL
QKEYESNKGNEAVQISTKALIQLT RQKGKNPDKATTPNPTTNAGLLDKL
SQSQNEWMKNTKIIILILRSLEDFLQF SLRAIRIM (183)

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	-20 C

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