

Recombinant Swine IL15

Cat. No. IL15-263S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Swine IL-15 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Pig
Source	Yeast
Description	Interleukin 15 (IL-15) is a cytokine with structural similarity to IL-2 that is secreted by mononuclear phagocytes (and some other cells) following infection by virus(es). This cytokine induces cell proliferation of natural killer cells; cells of the innate immune system whose principal role is to kill virally infected cells. IL-15 was discovered to be a member of a family of cytokines, which also includes IL-2, IL-4, IL-7, IL-9, and IL-21. The specific receptor for IL-15, IL-15 receptor alpha, appears to regulate IL-15 secretion, stability, and activity. All members of this family use the common gamma chain as part of their signaling complex. IL-15 has been shown to play a role in many diseases, including obesity, influenza, and inflammatory autoimmune diseases.
Form	Lyophilized without carrier protein.
Molecular Mass	Swine IL-15 has a predicted molecular weight of 13.1 kDa.
AA Sequence	TWQHVISDLK KIEDLIRSIH MDATLYTESD AHPNCKVTAM KCFLEELRVI LQESRNSDIS DTVENLIILA NSSLSSIEYK TSGCKECEEE LEEKNINEFL KSFHIVQMF INPS (114)

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Purity	>95% as visualized by SDS-PAGE analysis.
Applications	The Swine IL-15 protein can be used in cell culture, as an IL-15 ELISA Standard, and as a Western Blot Control.
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.
Reconstitution	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

GENE INFORMATION

Gene Name	IL15 interleukin 15 [<i>Sus scrofa</i> (pig)]
Official Symbol	IL15
Synonyms	IL15; interleukin 15; IL-15; interleukin-15
Gene ID	397683
mRNA Refseq	NM_214390
Protein Refseq	NP_999555
UniProt ID	Q95253
Chromosome Location	8; 8
Pathway	Cytokine-cytokine receptor interaction; HTLV-I infection; HTLV-I infection

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Function

cytokine activity; cytokine receptor binding

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