

Active Recombinant Swine Interleukin 13

Cat. No. IL13-262S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Swine IL-13 was expressed in Yeast. MW= 13.2 kDa (120 aa).
Species	Pig
Source	Yeast
Description	IL13 is an immunoregulatory cytokine produced primarily by activated Th2 cells. IL-13 is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4.
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	LTCFGGLASP GPVPPHSTAL KELIEELVNI TQNQKTPLCN GSMVWSVNL TSMYCAALES LINISDCSAI QKTQRMLSAL CSHKPPSEQV PGKHIRDTKI EVAQFVKDLL KHLRMIFRHG.

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Bioactivity The biological activity of recombinant swine IL-13 was measured in a cell proliferation assay using the human TF-1 cell line. The ED50 for this effect is typically 250 - 375 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 IL13 interleukin 13 [*Sus scrofa*]

Synonyms interleukin 13; IL13; interleukin-13; IL-13; L13

Gene ID 396721

mRNA Refseq NM_213803.1

Protein Refseq NP_998968.1

UniProt ID Q95J68

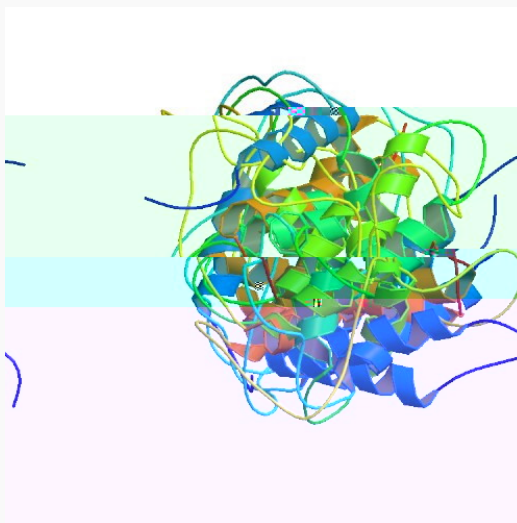
Pathway Asthma; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Jak-STAT signaling pathway

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