

## 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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

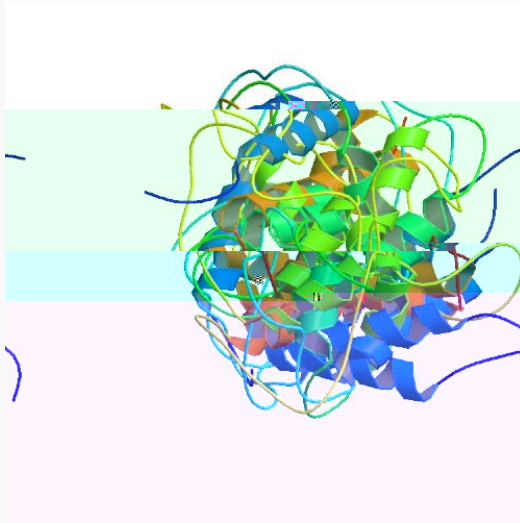
**Pathway** Asthma; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Jak-STAT signaling pathway

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