

## Active Recombinant Human IL5 Protein, His-Tagged

Cat. No. IL5-01H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL5 Protein, His-Tagged was expressed in Baculovirus cell line
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	124aa
<b>Description</b>	<p>This gene encodes a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. The encoded cytokine plays a major role in the regulation of eosinophil formation, maturation, recruitment and survival. The increased production of this cytokine may be related to pathogenesis of eosinophil-dependent inflammatory diseases. This cytokine functions by binding to its receptor, which is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene is located on chromosome 5 within a cytokine gene cluster which includes interleukin 4 (IL4), interleukin 13 (IL13), and CSF2 . This gene, IL4, and IL13 may be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31.</p>
<b>Form</b>	Liquid
<b>Bio-activity</b>	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range $\leq 1.5$ ng/ml.
<b>Molecular Mass</b>	14.2 kDa

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<b>Endotoxin</b>	< 1 EU per 1ug of protein (determined by LAL method)
<b>Purity</b>	> 90% by SDS-PAGE
<b>Applications</b>	SDS-PAGE, Bioactivity
<b>Storage</b>	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5mg/ml (determined by absorbance at 280nm)
<b>Storage Buffer</b>	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

## GENE INFORMATION

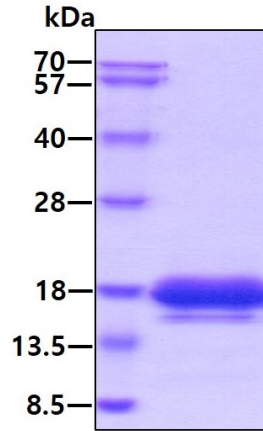
<b>Gene Name</b>	IL5 interleukin 5 [ Homo sapiens (human) ]
<b>Official Symbol</b>	IL5
<b>Synonyms</b>	Interleukin-5, IL-5, EDF, TRF
<b>Gene ID</b>	3567
<b>mRNA Refseq</b>	NM_000879.3
<b>Protein Refseq</b>	NP_000870.1
<b>MIM</b>	147850
<b>UniProt ID</b>	P05113

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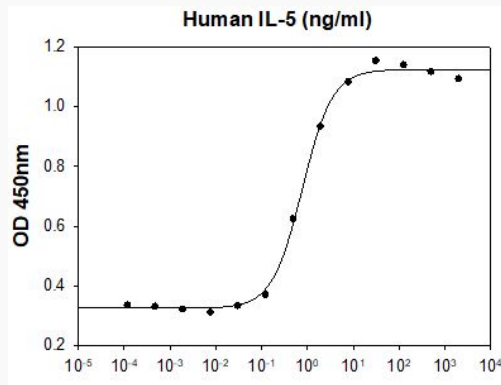
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**SDS-PAGE**



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

**Biological Activity**



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