

## IL5

### Recombinant Mouse Interleukin-5, Animal Free

<b>Catalog No.</b>	CS314A-AF CS314B-AF CS314C-AF CS314D-AF	<b>Quantity:</b>	5 µg 25 µg 1 mg 100 µg
<b>Alternate Names:</b>	EDF, BCDFII, TRF		
<b>Description:</b>	Interleukin-5 (IL-5) is a hematopoietic growth factor expressed in Th2, mast cells and eosinophils. IL-5 acts through its receptor, the IL-5 receptor (IL-5R) and is involved in B cell growth and eosinophil activation. IL-5 has been shown to be and is regulated by GATA-3, in addition to other transcription factors. Human and mouse IL-5 are cross-reactive.		
<b>Gene ID:</b>	16191		
<b>UniProt ID:</b>	P04401		
<b>Source:</b>	<i>E. coli</i> <b>Manufactured without Animal-derived products, in an Animal Free facility.</b>		
<b>Molecular Weight:</b>	13.1/26.2 kDa (113/226 aa) dimer		
<b>Formulation:</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5		
<b>Purity:</b>	≥ 95% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 1 EU/µg by kinetic LAL analysis		
<b>Biological Activity:</b>	≤ 2 ng/ml, determined by the dose-dependent proliferation of TF-1 cells.		
<b>Specific Activity:</b>	≥ 5.0 x 10 <sup>5</sup> units/mg		
<b>Amino Acid Sequence:</b>	MEIPMSTVVK ETLTQLSAHR ALLTSNETMR LPVPTHKNHQ LCIGEIFQGL DILKNQTVRG GTVEMLFQNL SLIKKYIDRQ KEKCGEERRR TRQFLDYLQE FLGVMSTEWA MEG		
<b>Reconstitution:</b>	<b>Centrifuge vial before opening.</b> When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.		



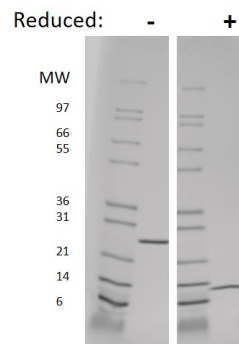
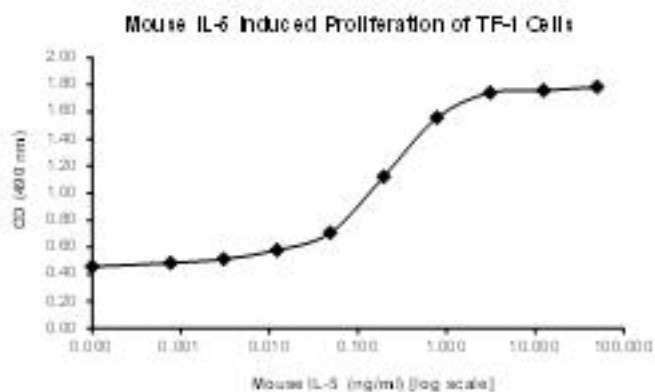
## Storage & Stability:

Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year.

Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, prepare working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution.

**Avoid repeated freeze-thaw cycles.**

Figure 1: TF-1 cells were cultured with 0 to 50 ng/ml Mouse IL-5. Cell proliferation was measured after 70 hours and the linear portion of the curve was used to calculate the ED50.



## Mouse IL-5

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse IL-5 is a homodimer with a predicted total MW of 26.3 kDa.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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