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Product Data Sheet

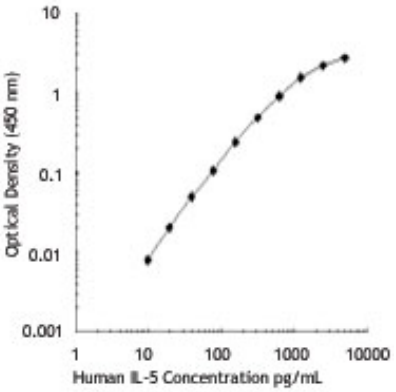
Recombinant Human IL-5

Catalog # / Size: 560701 / 2 µg

Preparation: Centrifuge vial prior to opening. Reconstitute in 100 µl sterile water for a concentration of 20 µg/ml and mix well. This solution can be diluted into other aqueous buffers containing a carrier protein such as 1% BSA or HSA or 10% FBS. Stock solutions should be prepared at no less than 10 µg/mL in sterile buffer with carrier protein. After reconstitution, the cytokine can be stored at -20°C to -70°C for up to three months.

Formulation: Sterile-filtered through a 0.2 micron filter. Lyophilized with no additives.

Storage: The lyophilized protein is stable for 12 months from the date of receipt at -20°C to -70°C. Reconstituted hIL-5 is stable for three months when stored in working aliquots, with a carrier protein, at -20°C to -70°C. **Avoid repeated freeze/thaw cycles.**



Applications:

Applications: ELISA, Bioassay

Recommended Usage: Each lot of this protein is quality control tested by ELISA assay. For use as an ELISA standard, a standard curve comprised of doubling dilutions from 500 pg/ml to 4 pg/ml is suggested. Please see antibody product data sheets and recommended protocols. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA:** This IL-5 protein is useful as a standard for a human IL-5 sandwich ELISA, using unlabeled JES1-39D10 antibody (catalog #500902) for capture and biotinylated JES1-5A10 antibody (catalog #501002) for detection.
Ligand Blocking: This IL-5 protein is useful as a ligand-blocking specificity control for immunohistochemical or immunofluorescent staining.
Bioassay: This IL-5 protein is biologically active, and can be used for *in vitro* assays.

Description: IL-5 is a homodimeric, disulphide-linked protein produced by T-cells. Monomeric human IL-5 is a 126 amino acid protein with a reported molecular weight of 26 kD for the homodimeric protein. Mouse and human IL-5 are approximately 70% identical. IL-5 has been shown to promote the growth of immature hematopoietic BFU-E progenitors, stimulate the activation and differentiation of eosinophils, and promote the generation of cytotoxic lymphocytes.

Antigen References:
1. Fitzgerald, K., *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.
2. Takatsu, K., *et al.* 1988. *Immunol. Rev.* 102:107.
3. Takatsu, K. 1992. *Curr. Opin. Immunol.* 4:299.
4. Takatsu, K. 1991. *Microbiol. Immun.* 35:593.

Related Products:

Product	Clone	Application
Purified anti-human IL-5	JES1-39D10	ELISA Capture, IHC, WB
Biotin anti-human IL-5	JES1-5A10	ELISA Detection, ELISPOT Detection

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