

Recombinant Human Interleukin-5 (IL-5)








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

Revision Date 04 May 2011

Catalog Number:	PHC0055
Quantity:	10 µg
Lot Number:	See product label.
Molecular Weight:	26.0 kDa, disulfide linked homodimer; each subunit contains 116 amino acid residues.
Description:	IL-5 is produced by T cells, mast cells, and eosinophils. IL-5 stimulates the growth and differentiation of B cells and eosinophils.
Source:	Recombinant human IL-5 is produced in <i>E. coli</i> and purified by sequential chromatography.
Purity:	Recombinant human IL-5 is ≥98% pure as determined by SDS-PAGE and HPLC analyses.
Biological Activity:	The expected ED ₅₀ is ≤0.15 ng/mL (specific activity ≥6.6 × 10 ⁶ units/mg). The biological activity is determined by measuring the IL-5 dose dependent proliferation of TF-1 cells. The optimal concentration should be determined for each specific application.
Formulation:	Lyophilized in 20 mM Sodium Phosphate, pH 7.5. Sterile filtered prior to lyophilization.
Reconstitution Recommendation:	We recommend that the vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute recombinant human IL-5 in sterile distilled water to a concentration of 0.1–1.0 mg/mL. <i>Do not vortex.</i> This solution can be stored at 2°C to 8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein, such as 0.1% BSA and store in working aliquots at –20°C to –80°C.
Storage:	The lyophilized protein is stable at room temperature for 1 month, but should be kept at –20°C for long term storage. Working aliquots stored with a carrier protein are stable for at least 12 months at –20°C to –80°C. Avoid repeated freeze/thaw cycles.
Expiration Date:	See product label.
References:	Gubina, E., X. Luo, E. Kwon, K. Sakamoto, Y.F. Shi, and R.A. Mufson (2001) βc cytokine receptor-induced stimulation of cAMP response element binding protein phosphorylation requires protein kinase C in myeloid cells: A novel cytokine signal transduction cascade. <i>J. Immunol.</i> 167(8):4303–4310.

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

Limited Use Label License: Research Use Only

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For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

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