

Recombinant Human Interleukin-13 (IL-13)








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

Revision Date 09 May 2011

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|---------------------------------------|--|---------|---------|---------|
| Catalog Number: | PHC0134 | PHC0135 | PHC0131 | PHC0133 |
| Quantity: | 5µg | 25 µg | 100 µg | 1 mg |
| Lot Number: | See product label. | | | |
| Molecular Weight: | 12.5 kDa | | | |
| Purity: | >95% as determined by SDS-PAGE analysis. | | | |
| Biological Activity: | ED ₅₀ range = 2.0–6.0 ng/mL, determined by the dose dependent proliferation of human TF-1 cells. The optimal concentration for each specific application should be determined by an initial dose response assay. | | | |
| Formulation: | Lyophilized, carrier free. | | | |
| Sterility: | Filtered prior to lyophilization through a 0.22 micron sterile filter. | | | |
| Endotoxin: | <0.1 ng/µg | | | |
| Production: | Recombinant human IL-13 is produced in <i>E. coli</i> and purified via sequential chromatography. | | | |
| Reconstitution Recommendation: | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Lyophilized hIL-13 should be reconstituted in sterile, deionized water to a concentration of 0.1–1.0 mg/mL to regain full activity. Stock solutions should be apportioned into working aliquots and stored at ≤ –20°C. Further dilutions should be made in low endotoxin medium or buffered solution with FBS or tissue culture grade BSA. | | | |
| Suggested Working Dilutions: | The optimal concentration should be determined for each specific application. | | | |
| Storage: | Lyophilized hIL-13 should be stored at 2°C to 8°C, preferably desiccated. Store reconstituted hIL-13 at ≤ –20°C (not in a frost-free freezer). Keep freeze-thaw cycles to a minimum. | | | |
| Expiration Date: | Expires one year from date of receipt when stored as instructed. | | | |
| References: | <p>McKenzie, A.N., J.A. Culpepper, R. Waal Malefyt, F. Briere, J. Punnonen, G. Aversa, A. Sato, W. Dang, B.G. Cocks, S. Menon, J.E. de Vries, J. Banchereau, and G.R. Zurawski (1993) Interleukin 13, a T-cell-derived cytokine that regulates human and monocyte and B-cell function. <i>Proc. Nat'l. Acad. Sci. USA</i> 90:3735–3739.</p> <p>Izuhara, K., K. Arima, and S. Yasunaga (2002) IL-4 and IL-13: their pathological roles in allergic diseases and their potential in developing new therapies. <i>Curr. Drug Targets Inflamm. Allergy</i> 1:263–269.</p> <p>Chibana, K., Y. Ishii, T. Asakura, and T. Fukuda (2003) Up-regulation of cysteinyl leukotriene 1 receptor by IL-13 enables human lung fibroblasts to respond to leukotriene C4 and produce eotaxin. <i>J. Immunol.</i> 170:4290–4295.</p> <p>Xu, B., A. Battacheerjee, B. Roy, H.M. Xu, D. Anthony, D.A. Frank, G.M. Feldman, and M.K. Cathcart (2003) Interleukin-13 induction of 15-lipoxygenase gene expression requires p38 mitogen-activated protein kinase-mediated serine 727 phosphorylation of Stat1 and Stat3. <i>Mol. Cell. Biol.</i> 23:3918–3928.</p> <p>Wynn, T.A. (2003) IL-13 effector functions. <i>Annu. Rev. Immunol.</i> 21:425–456.</p> <p>Terabe, M. J.M. Park, and J.A. Berzofsky (2004) Role of IL-13 in regulation of anti-tumor immunity and tumor growth. <i>Cancer Immuno. Immunother.</i> 53:79–85.</p> <p>Izuhara, K. and K. Arima (2004) Signal transduction of IL-13 and its role in the pathogenesis of bronchial asthma. <i>Drugs News. Perspect.</i> 17:91–98.</p> | | | |

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.

Manufactured under ISO 13485 Quality Standard

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

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