

Recombinant Human Interleukin-12 (IL-12)








Publication Number MAN0004293







Rev. 1.00

| | | |
|---------------------------------------|--|---------|
| Catalog Number: | PHC1124 | PHC1123 |
| Quantity: | 10 µg | 1 mg |
| Lot Number: | See product label. | |
| Molecular Weight: | 75 kDa. Recombinant human IL-12 is a heterodimer composed of disulfide linked p35 and p40 subunits. | |
| Purity: | >95.5% as determined by SDS-PAGE and HPLC analyses. | |
| Biological Activity: | ED ₅₀ ≤1.0 ng/mL (≥1 × 10 ⁶ Units/mg). Biological activity is determined by measuring the IL-12 dose dependent co-stimulation of interferon-gamma production by IL-18 treated NK cells. A concentration range of 1.0–10.0 ng/mL is suggested for most <i>in vitro</i> applications. The optimal concentration should be determined for each specific application. This cytokine has been observed to stimulate the growth of activated CD4 ⁺ and CD8 ⁺ T cells and NK cells. | |
| Formulation: | Lyophilized from 0.5x PBS, pH 7.4. Sterile-filtered prior to lyophilization. | |
| Endotoxin: | Endotoxin <0.1 ng/µg IL-2 | |
| Production: | Recombinant human IL-12 is produced in Chinese hamster ovary (CHO) cells. | |
| Reconstitution Recommendation: | We recommend that the vial be briefly centrifuged prior to opening to bring the contents to the bottom. This lyophilized protein should be reconstituted in phosphate buffered saline, pH 7.2–pH 7.4, to a concentration of ≥0.2 mg/mL. Further dilutions should be made in sterile medium or buffered solution with a carrier protein. | |
| Storage: | This lyophilized preparation is stable at 2°C to 8°C, but should be kept at –20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2°C to 8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at ≤ –20°C. Avoid repeated freeze/thaw cycles. | |
| Expiration Date: | Expires one year from date of receipt when stored as instructed. | |
| References: | Rao, R.M., D.O. Haskard, and R.C. Landis (2002) Enhanced recruitment of TH2 and CLA–Negative lymphocytes by the S128R polymorphism of E-Selectin(1). J. Immunol. 169 (10):5860–5865. | |

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

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

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

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

© 2011 Life Technologies Corporation. All rights reserved. The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners.

For support visit www.lifetechnologies.com/support or email techsupport@lifetech.com

www.lifetechnologies.com

Revision Date 17 May 2011

