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# Recombinant Mouse Interleukin-7 (IL-7)

**Publication Number** MAN0004290 **Rev.** 1.00

| **Catalog Number:** | PMC0074 | PMC0075 | PMC0071 |
|---|---|---|---|
| **Quantity:** | 2 µg | 5 µg | 100 µg |
| **Lot Number:** | See product label. | | |
| **Molecular Weight:** | 15 kDa | | |
| **Purity:** | >95% as determined by SDS-PAGE analysis. | | |
| **Biological Activity:** | $ED_{50}$ range = 0.15–0.3 ng/mL, determined by the dose dependent proliferation of mouse 2E8 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 0.22 micron sterile filter. | | |
| **Endotoxin:** | <0.1 ng/µg | | |
| **Production:** | Recombinant mouse IL–7 is produced in *E. coli* 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. Reconstitute lyophilized recombinant mouse IL–7 in sterile, distilled water to a concentration of 0.1–1.0 mg/mL. Further dilutions should be made in low endotoxin medium or a buffered solution containing a carrier protein such as heat inactivated FCS or tissue culture grade BSA. | | |
| **Suggested Working Dilutions:** | The optimal concentration should be determined for each specific application. | | |
| **Storage:** | Store lyophilized recombinant mouse IL–7 at 2°C to 8°C, preferably desiccated. Upon reconstitution, apportion 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:** | Romieu, R., M. Baratin, M. Kayibanda, V. Lacabanne, M. Ziol, J.G. Guillet, and M. Viguier (1998) Passive but not active CD8+ T cell–based immunotherapy interferes with liver tumor progression in a transgenic mouse model. J. Immunol. 161(10):5133–5137.<br>Kelly, E., A. Won, Y. Refaeli, and L. Van Parijs (2002) IL-2 and related cytokines can promote T cell survival by activating AKT. J. Immunol. 168(2):597–603.<br>Frasca, D., D. Nguyen, R.L. Riley and B.B. Blomberg (2003) Decreased E12 and/or E47 transcription factor activity in the bone marrow as well as in the spleen of aged mice. J. Immunol. 170(2):719–726. | | |

## Explanation of Symbols

The symbols present on the product label are explained below:

| Symbol | Description |
|---|---|
| REF | Catalog Number |
| RUO | 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 |
|---|---|
| LOT | Batch code |
| IVD | In vitro diagnostic medical device |
|  | Temperature limitation |
| EC REP | 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.

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