



## *Recombinant Human Interleukin 2* **rHuIL-2, ultra-low endotoxin**

Catalog number: HZ-6010

Lot-CHI-121407

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### *Specifications and Use*

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| <b>Source</b>              | ● <i>E. coli</i>   |
| <b>Molecular Mass</b>      | ● 15.04kDa.  |
| <b>Purity</b>              | ● > 97%, as determined by SDS-PAGE and HPLC method.  |
| <b>Biological Activity</b> | ● Measured in a cell proliferation assay using an IL-2 dependent murine cytotoxic T cell line, CTLL-2. Its specific activity is $\geq 1.2 \times 10^7$ IU/mg.  |
| <b>Endotoxin Level</b>     | ● Less than 0.07EU/ $\mu$ g of rHuIL-2 as determined by LAL method.  |
| <b>Formulation</b>         | ● Lyophilized from a 0.2 $\mu$ m filtered solution in 50mM PBS (pH 7.0) containing 50mg of human serum albumin per 1mg of cytokine.  |
| <b>Solubility</b>          | ● It is recommended to reconstitute the lyophilized rHuIL-2 in sterile ddH <sub>2</sub> O containing at least 0.1% human serum albumin or bovine serum albumin to prepare a stock solution of no less than 1 $\mu$ g/mL of the cytokine.   |
| <b>Stability</b>           | ● Lyophilized samples are stable for greater than six months from date of receipt at -20 °C to -70 °C.<br>● Upon reconstitution, this cytokine can be stored under sterile conditions at 2-8 °C for one month or at -20 °C to -70 °C in a manual defrost freezer for three months without detectable loss of activity. |
| <b>Usage</b>               | ● Avoid repeated freeze-thaw cycles.<br>● FOR RESEARCH USE ONLY. NOT FOR HUMAN USE.  |

### ***Human Interleukin 2***

Human IL-2 (also known as TCGF) is an about 15KD factor produced mainly by activated CD4+ T cells. IL-2 induces cell cycle progression of resting cells in an antigen non-specific manner and allows clonal expansion of activated T cells. IL-2 also acts on activated B cells, monocytes, NK, LAK cells, and on oligodendroglial cells in vitro. In addition, IL-2 plays a role in hematopoiesis, tumor surveillance and anti-inflammatory reactions and hence is a central regulator of the immune response. Non-glycosylated IL-2 is biologically active. Recombinant human IL-2 is biologically active and can promote proliferation of T lymphocytes in culture.