



SHANGHAI GENOMICS

Recombinant Human Interleukin 2

rHuIL-2

Catalog number: SG3110-22

Specifications and Use

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|----------------------------|---|
| Source | ● yeast. |
| Molecular Mass | ● Approximately 15.4kDa. |
| Purity | ● $\geq 97\%$, as determined by SDS-PAGE and HPLC method. |
| Biological Activity | ● Measured in a cell proliferation assay using an IL-2 dependent murine cytotoxic T cell line, CTLL-2. The specific activity shall be not less than 3×10^7 IU/mg. |
| Endotoxin Level | ● ≤ 1 EU/ μ g, determined by the LAL method. |
| Formulation | ● Lyophilized from a 0.2 μ m filtered solution in 10mM Phosphate buffer containing 0.3% human serum albumin. |
| Solubility | ● It is recommended to reconstitute the lyophilized rHuIL-2 in sterile ddH ₂ O containing at least 0.1% human serum albumin or bovine serum albumin to prepare a stock solution of no less than 1 μ g/mL of the cytokine. |
| Stability | ● Lyophilized samples are stable for greater than six months from date of receipt at -20°C to -70°C.
● 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.
● Avoid repeated freeze-thaw cycles. |
| Usage | ● 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.