



SHANGHAI GENOMICS

Recombinant Human Interleukin 4

rHuIL-4

Catalog number: SG3110-24

Specifications and Use

- | | |
|----------------------------|---|
| Source | ● Yeast |
| Molecular Mass | ● Approximately 30kDa. |
| Purity | ● $\geq 97\%$, as determined by SDS-PAGE and HPLC method. |
| Biological Activity | ● Measured in a cell proliferation assay using a human factor-dependent cell line, TF-1. The specific activity shall be not less than 1×10^7 IU/mg. |
| Endotoxin Level | ● ≤ 1 EU/ μ g, determined by the LAL method. |
| Formulation | ● Lyophilized from a 0.2 μ m filtered solution in 20mM Phosphate Buffer. |
| Solubility | ● It is recommended to reconstitute the lyophilized rHuIL-4 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 5 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 4

Interleukin 4 is a pleiotropic cytokine produced by activated T cells, mast cells, and basophils. It was initially identified as a B cell differentiation factor (BCDF), as well as a B cell stimulatory factor (BSF1). Subsequent to the molecular cloning and expression of both human and mouse IL-4, numerous other functions have been described on B cells as well as other hematopoietic and nonhematopoietic cells, including T lymphocytes, monocytes, macrophages, mast cells, myeloid and erythroid progenitors, fibroblasts, endothelial cells, etc. IL-4 exhibits anti-tumor effects both in vivo and in vitro.