

Recombinant Human Interleukin 4

Catalog Number	Size
AG114-10	10µg
AG114-30	30µg
AG114-100	100µg

Specifications and Use

Description	Recombinant human IL-4 produced in Yeast is a single, glycosylated, polypeptide chain containing 129 amino acids, three pairs of disulfide bonds and having a molecular mass of approximately 15.0kDa (after glycosylation, the molecular mass is 30.0kDa.)
Source	Yeast.
Molecular Mass	Approximately 30.0kDa.
Purity	≥97%, as determined by SDS-PAGE and HPLC method.
Endotoxin Level	≤1EU/µg, determined by the LAL 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.
Formulation	Lyophilized from a 0.2µm filtered solution in 20mM Phosphate Buffer.
Reconstitution	It is recommended that sterile ddH ₂ O containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of not less than 5µg/ml of the cytokine.
Storage	Lyophilized samples are stable for greater than six months from date of receipt at -20°C to -70°C. The reconstituted samples can be stored under sterile conditions at 2- 8°C for one month or at -20°C to -70°C for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

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.

FOR RESEARCH USE ONLY