

## Interleukin 4 Human Recombinant, Yeast

<b>Item Number</b>	rAP-0644
<b>Synonyms</b>	BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, Blnetrakin, Pitrakinra.
<b>Description</b>	Interleukin-4 Human Recombinant produced in yeast is a single, glycosylated polypeptide chain containing 129 amino acids. The IL-4 is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P05112
<b>Amino Acid Sequence</b>	
<b>Source</b>	Pichia pastoris.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Interleukin-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Interleukin-4 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	The protein was lyophilized from 0.2µm filtered solution in 20mM sodium phosphate buffer pH 6.0 in absence of any carrier protein. Greater than 98% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Interleukin-4 in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The biological activity is determined by measuring the dose-dependent proliferation of human TF-1 cells and CD23 expression. A concentration range of 0.1–10.0 ng/ml is effective for most in vitro applications. ED <sub>50</sub> = 0.05–0.4ng/ml.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**