

## Interleukin-6 Human Recombinant

<b>Item Number</b>	rAP-0543
<b>Synonyms</b>	B cell differentiation factor, BCDF, BSF-2, HPGF, HSF, MGI-2, B-cell stimulatory factor 2, Hybridoma growth factor, CTL differentiation factor, CDF, IL-6, HGF.
<b>Description</b>	Interleukin-6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 184 amino acids and having a molecular mass of 21000 Dalton. The IL6 is purified by proprietary chromatographic techniques.
<b>Uniprot Accesion Number</b>	P05231
<b>Amino Acid Sequence</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Pro-Val-Pro-Pro.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Interleukin-6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL6 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	Lyophilized from a 0.2um filtered concentrated (1mg/ml) solution in PBS, pH 7.4. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Interleukin-6 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The ED50 as determined by the dose-dependant stimulation of murine 7TD1 cells is less than 0.1 ng/ml, corresponding to the specific activity of 1.0 x 10,000,000 Units per mg.
<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**