

Interleukin-4 Rat Recombinant

Item Number	rAP-0575
Synonyms	BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, B-netrakin, Pitrakinra.
Description	Interleukin-4 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 126 amino acids and having a molecular mass of 14kDa. The IL-4 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P20096
Amino Acid Sequence	MHGCNDSPLR EIINTLNQVT EKGTPCTEMF VPDVLTATRN TTENELICRA SRVLRKFYFP RDVPPCLKNK SGVLGELRKL CRGVSGLNSL RSCTVNESTL TTLKDFLESLS KSILRGKYLQ SCTSMS.
Source	Escherichia Coli.
Physical Appearance and Stability	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 IL4 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.
Formulation and Purity	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Interleukin 4 in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Determined by its ability to suppress LPS-induced TNF-alpha and MIP-2 production in mouse splenocytes.
Shipping Format and Condition	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**