

Interleukin-7 Mouse Recombinant

Item Number	rAP-0566
Synonyms	Lymphopoietin 1 (LP-1), pre-B cell factor, IL-7.
Description	Interleukin-7 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 129 amino acids and having a molecular mass of 14.9kDa.
Uniprot Accession Number	P10168
Amino Acid Sequence	ECHIKDKEGK AYESVLMISI DELDKMTGTD SNCPNNEPNF FRKHVCDDTK EAAFLNRAAR KLKQFLK-MNI SEEFNVHLLT VSQGTQTLVN CTSKEEKNVK EQKKNDACFL KRLLEIKTC WNKILKGS.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Interleukin-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL7 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	Filtered (0.2µm) and lyophilized from a concentrated (1mg/ml) solution in 1×PBS, pH7.4 and 2% trehalose. Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Interleukin 7 in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is less than 0.2 ng/ml, corresponding to a specific activity of >5.0×10 ⁶ IU/mg.
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**