

Human IL 7 Recombinant Protein



RPPB0539

Product Information Protein Information

Product SKU:

RPPB0539

Accession:

P13232

Host:

Saccharomyces cerevisiae.

Protein description:

Interleukin-7 Human Recombinant produced in yeast is a single, glycosylated polypeptide chain containing 152 amino acids and having a molecular mass of 17.4 kDa. The IL-7 is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Lymphopoietin 1 (LP-1), pre-B cell factor, IL-7.

Formulation:

Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM phosphate buffer.

Purity:

Greater than 98.0% as determined by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Interleukin -7 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

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.

Amino Acid Sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Asp-Cys-Asp-Ile-Glu.

Biological Activity:

The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by murine pre-B cell line 2E8 is < 0.5 ng/ml, corresponding to a specific activity of > 2 x 10⁶ units/mg.