

Human IL 7 Recombinant Protein



RPPB0538

Product Information Protein Information

Product SKU:

RPPB0538

Accession:

P13232

Host:

Escherichia Coli.

Protein description:

Interleukin-7 Human Recombinant produced in E.Coli is a single, non-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 1x PBS pH-7.4.

Purity:

Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis 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:

DCDIEGKDG KQYESVLMVS IDQLLDSMKE IGSNCLNNEF NFFKRHICDA NKEGMFLFRA ARKLRQFLKM
NSTGDFDLHL LKVSEGTTL LNCTGQVKGR KPAALGEAQP TKSLEENKSL KEQKCLNDLC FLKRLLEIK
TCWNKILMGT KEH.

Biological Activity:

The ED₅₀ as determined by the dose-dependant stimulation of murine 2E8 cells is < 0.5ng/ml, corresponding to a Specific Activity of 2,000,000 IU/mg.