

IL 7 Rat

Description:IL 7 Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 129 amino acids and having a molecular mass of 15.0kDa.The IL 7 is purified by proprietary chromatographic techniques.

Catalog #:CYPS-170

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

For research use only.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:DCHIKDKDGK AFGSVLMISI NQLDKMTGTD SDCPNNEPNF
FKKHLCDDTK EAAFLNRAAR KLRQFLKMNI SEEFNDHLLR VSDGTQTLVN CTSKEEKTIK
EQKKNPCFL KRLLEIKTC WNKILKGS

Purity:Greater than 98.0% as determined by SDS-PAGE.

Formulation:

Lyophilized from a 0.2

Stability:

Lyophilized IL-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-7 should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized IL-7 in sterile 18M-cm H2O not less than 100

Introduction:

IL-7 is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. This cytokine is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRB) during early T cell development. This cytokine can be produced locally by intestinal epithelial and epithelial goblet cells, and may serve as a regulatory factor for intestinal mucosal lymphocytes. Knockout studies in mice suggested that this cytokine plays an essential role in lymphoid cell survival.

Biological Activity:

Fully biologically active when compared to standard. The ED50 was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is less than 0.2ng/ml, corresponding to a specific activity of 5,000,000IU/mg.

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