

## IL 7 Human, HEK

**Description:**IL-7 Human Recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight range of 19-30kDa due to glycosylation. The IL-7 is purified by proprietary chromatographic techniques.

**Catalog #:**CYPS-204

For research use only.

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

**Source:**HEK.

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

**Purity:**Greater than 95% as observed by SDS-PAGE.

**Formulation:**

The IL7 was lyophilized from 1mg/ml in 1xPBS.

**Stability:**

Lyophilized IL-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.

**Usage:**

NeoBiolabs 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 PBS containing 0.1% endotoxin-free recombinant HSA.

**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:**

The activity was determined by the dose dependent stimulation of the proliferation of murine 2E8 cells and is typically 0.6ng/ml corresponding to a specific activity of 1,666,667units/mg.

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