



Interleukin-7, HEK, human recombinant (rHuIL-7-HEK)

Catalog No: 97634
Lot No: XXXXX
Source: HEK293
Synonyms: Lymphopoietin 1 (LP-1), pre-B cell factor, IL-7

Background

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.

Description

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

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

IL7 was lyophilized from 1 mg/ml in 1 x PBS.

Solubility

It is recommended to reconstitute the lyophilized IL-7 in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

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.

Purity

Greater than 95% as observed by SDS-PAGE.

Activity

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

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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