
Product Data Sheet

Product Name: IL 7 Human, HEK
Cat. No.: GP20531
Batch No.: 1

Product Data

Purity	>98%	Source	HEK.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Lymphopoietin 1 (LP-1); pre-B cell factor; IL-7.		
Solubility	It is recommended to reconstitute the lyophilized IL-7 in sterile PBS containing 0.1% endotoxin-free recombinant HSA.		
Formulation	The IL7 was lyophilized from 1mg/ml in 1xPBS.		

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 0.3ng/ml corresponding to a specific activity of 3,333,334units/mg.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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