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## Product Data Sheet

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Product Name: IL7 Human, sf9  
 Cat. No.: GP20532  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interleukin 7; IL-7; Interleukin-7.		
Amino Acid Sequence	ADPDCDIEGKDGKQYESVLM VSIDQLLDISM KEIGSNCLNN EFNFFKRHIC DANKEGMFLF RAARKLRQFL KMNSTGDFDLHLLKVSEGTT ILLNCTGQVK GRKPAALGEA QPTKSLEENK SLKEQKLLND LCFLKRLLE IKTCWNKILM GTKEHHHHHHH.		
Formulation	IL7 protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

### 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

IL7 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 161 amino acids (26-177 a.a.) and having a molecular mass of 18.4kDa (Molecular size on SDS-PAGE will appear at approximately 18-28 kDa). IL7 is expressed

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

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with a 6 amino acid His tag atC-Terminus and purified by proprietary chromatographic techniques.

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