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# Recombinant human IL-7 protein

Catalog Number: ATGP3442

# **PRODUCT INFORMATION**

# **Expression system**

Baculovirus

#### **Domain**

26-177aa

#### UniProt No.

P13232

#### **NCBI Accession No.**

NP 000871.1

#### **Alternative Names**

Interleukin-7 isoform 1, IL7, IL-7, II7, Interleukin-7

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

18.4 kDa (161aa)

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

## **Description**

IL7, as known as interleukin-7 isoform 1, is a cytokine of the hemopoietin family that plays important roles in lymphocyte differentiation, proliferation, and survival. This protein is a hematopoietic growth factor secreted by stromal cells in the bone marrow and thymus. It is also produced by keratinocytes, dendritic cells, hepatocytes, neurons, and epithelial cells but is not produced by normal lymphocytes. Recombinant human IL7, fused to His-



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tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

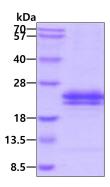
<ADP>DCDIEGK DGKQYESVLM VSIDQLLDSM KEIGSNCLNN EFNFFKRHIC DANKEGMFLF RAARKLRQFL KMNSTGDFDL HLLKVSEGTT ILLNCTGQVK GRKPAALGEA QPTKSLEENK SLKEQKKLND LCFLKRLLQE IKTCWNKILM GTKE<HHHHHH H>

#### **General References**

lolyeva M., et al. (2013) Blood 122:2271-2281. Younas M., et al. (2013) J. Immunol. 191:3161-3168.

### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

