

Product datasheet

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ARG70050 Human IL7 recombinant protein (Active) (His-tagged, C-ter)

Package: 100 μg, 20 μg

Store at: -20°C

Summary

Product Description E. coli expressed, His-tagged (C-ter) Active Human IL7 recombinant protein

Tested Application SDS-PAGE

Target Name IL7

Species Human

A.A. Sequence Asp26 - His177

Expression System E. coli

Activity Active

Activity Note Determinedd by its ability to induce PHA-activated human PBMCs proliferation. The ED50 for this effect

is 1 x 10⁸ units/mg.

Alternate Names IL-7; Interleukin-7

Properties

Form Powder

Purification Note Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.

Purity >95% (by SDS-PAGE)

Buffer PBS (pH 8.0)

Reconstitution It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less

than 200 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure

the protein is dissolved completely.

Storage instruction For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and

store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid

repeated freeze/thaw cycles. Suggest spin the vial prior to opening.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol IL7

Gene Full Name interleukin 7

Background The protein encoded by this gene 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. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional splice variants have been described but their presence in normal tissues has not been

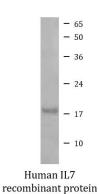
confirmed.[provided by RefSeq, Dec 2010]

Function Hematopoietic growth factor capable of stimulating the proliferation of lymphoid progenitors. It is

important for proliferation during certain stages of B-cell maturation. [UniProt]

Cellular Localization Secreted. [UniProt]

Images



ARG70050 Human IL7 recombinant protein (Active) (His-tagged, Cter) SDS-PAGE image

SDS-PAGE analysis of ARG70050 Human IL7 recombinant protein (Active) (His-tagged, C-ter).