Recombinant Mouse IL-7 Protein

Catalog No.: RP01766LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	16196	P10168

Tags

C-6His

Synonyms

II-7; hlb368; A630026I06Rik[]iI7

Product Information

Source Purification HEK293 cells

Calculated MW Observed MW 15.74 kDa 20-30 kDa

Endotoxin

< 0.01EU/µg

Formulation

Supplied as a 0.22 μ m filtered solution in PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

IL7, also known as interleukin 7, is a hematopoietic growth factor that belongs to the IL-7/IL-9 family. It is secreted by stromal cells in the bone marrow and thymus. IL7 stimulates the proliferation of lymphoid progenitors. It is important for proliferation during certain stages of B-cell maturation. IL7 and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. It is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCR?) during early T cell development. IL7 can be produced locally by intestinal epithelial and epithelial goblet cells and may serve as a regulatory factor for intestinal mucosal lymphocytes.

Basic Information

Description

Recombinant Mouse IL-7 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu26-Ile154) of mouse IL7(Accession $\#NP_032397.1$) fused with and a 6×His tag at the C-terminus.

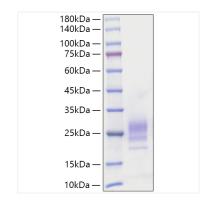
Bio-Activity

Measured in a cell proliferation assay using murine 2E8 cells. The ED_{50} for this effect is 0.8-3.2 ng/mL, corresponding to a specific activity of $3.23 \times 10^5 \sim 1.25 \times 10^6$ units/mg.

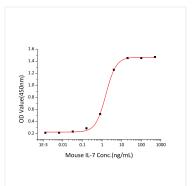
Storage

Store at -70°C. This product is stable at \leq -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.





Recombinant Mouse IL-7 Proteinwas determined by SDS-PAGE with Coomassie Blue, showing a band at 15-25 kDa.



Recombinant Mouse IL-7 stimulates cell proliferation of the murine 2E8 cells. The ED₅₀ for this effect is 0.8-3.2 ng/mL, corresponding to a specific activity of $3.23 \times 10^5 \sim 1.25 \times 10^6$ units/mg.