

Recombinant Mouse IL-7 Protein

Catalog No.: RP01766

Sequence Information

Species **Gene ID**
Mouse 16196

Swiss Prot **Tags**
P10168 C-6His

Synonyms

IL-7; hlb368; A630026I06Rik; il7

Product Information

Source **Purification**
HEK293 cells ≥ 90 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
15.74 kDa 20-30 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method

Formulation

Lyophilized from a 0.22 μm filtered solution of 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 IL-7 (Accession #NP_032397.1) fused with a 6×His tag at the C-terminus.

Activity

Measured in a cell proliferation assay using murine 2E8 cells. The ED₅₀ for this effect is 1.1-4.2 ng/mL, corresponding to a specific activity of 2.38×10⁵~9.1×10⁵ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

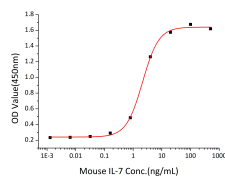
Contact

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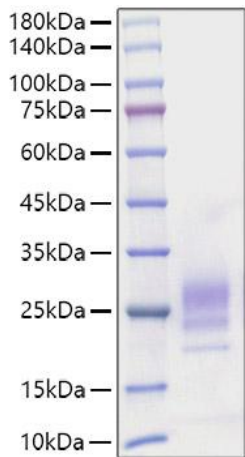
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



Recombinant Mouse IL-7 stimulates cell proliferation of the murine 2E8 cells. The ED₅₀ for this effect is 1.1-4.2 ng/mL, corresponding to a specific activity of $2.38 \times 10^5 \sim 9.1 \times 10^5$ units/mg.



Recombinant Mouse IL-7 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.