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Human recombinant IL-7 protein, GMP

Catalog Number: PROTP13232-10

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Overview

Product Name	Human recombinant IL-7 protein, GMP
Description	Interleukin-7 (IL-7) is a multipotent cytokine belonged to one of the members of IL-2 superfamily. IL-7 has diverse effects on the hematopoietic and immune regulations. IL-7 is a trophic factor that is necessary for both B cell and T cell proliferation and development. In addition, it presents potential antitumor effects in tumors such as glioma, melanoma, lymphoma, leukemia, prostate cancer, and glioblastoma.
Size	100ug,1mg
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	Lyophilized from a 0.2 um filtered solution of PBS, pH 8.0.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>95% as determined by SDS-PAGE analysis.

Molecular weight

The protein has a calculated MW of 18.3 kDa. The protein migrates as 19 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measured by its ability to induce PHA-activated human PBMCs proliferation. The ED_{50} for this effect is <0.8 ng/mL. The specific activity of recombinant human IL-7 is > 1 x 10^8 units/mg.

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Endotoxin

<0.05 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MDCDIEGKDGKQYESVLMVSIDQLLDSMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAARKLRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGQVK GRKPAALGEAQPTKSLEENKSLKEQKKLNDLCFLKRLLQEIKTCWNKILMGTKEH with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved.

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For Research Use Only. Not for use in diagnostic procedures.