

Recombinant Rat Interleukin-7

Catalog No: #AP60232

Package Size: #AP60232-1 10ug #AP60232-2 100ug #AP60232-3 500ug

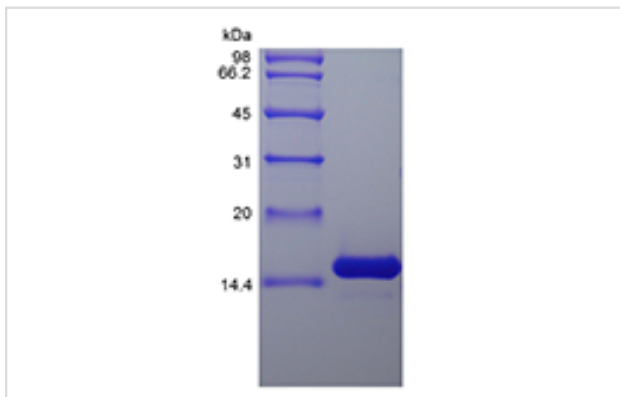
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Description

Product Name	Recombinant Rat Interleukin-7
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Uniprot	P56478
GeneID	25647
Calculated MW	Approximately 14.9 kDa, a single non-glycosylated polypeptide chain containing 129 amino acids.
Target Sequence	DCHIKDKDGK AFGSVLMISI NQLDKMTGTD SDCPNNEPNF FKKHLCDDTK EAAFLNRAAR KLRQFLKMNI SEEFNDHLLR VSDGTQTLVN CTSKEEKTIK EQKKNPCFL KRLLEIKTC WNKILKGS
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

Interleukin-7 (IL-7) is encoded by the IL7 gene and secreted by stromal cells in the red marrow and thymus. It binds to the IL-7 receptor, a heterodimer consisting of IL-7 receptor alpha and IL-2 receptor gamma chain. IL-7 stimulates the differentiation of hematopoietic stem cells into lymphoid progenitor cells and also stimulates proliferation of B cells, T cells and NK cells. Furthermore, IL-7 as an immunotherapy agent has been examined in many human clinical trials for various malignancies and during HIV infection. Rat IL-7 contains 129 amino acid residues and has three disulfide bonds. In addition, it has approximately 57 % and 88 % amino acid sequence identity with human and murine IL-7.

Note: This product is for in vitro research use only