Active Recombinant Rat Il7 Protein, His-tagged

Cat. No. Il7-232I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Il7 Protein with His tag was expressed in CHO.
Species	Rat
Source	CHO
Description	Interleukin-7 (IL-7), also known as lymphopoietin 1 and pre-B cell factor, is a hematopoietic growth factor belonging to the IL-7/IL-9 family. It is produced by keratinocytes, dendritic cells, hepatocytes, neurons and epithelial cells. IL-7 binds and signals through IL-7 receptor, a heterodimer consisting of IL-7 receptor alpha and common gamma chain receptor. IL-7 plays a role in regulating early B cell and T cell development. It is also important for optimal dendritic cell-T cell interaction.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 22 ng/mL, measured in a cell proliferation assay using 2E8 cells.
Molecular Mass	20-28 kDa, observed by reducing SDS-PAGE.
AA Sequence	DCHIKDKDGKAFGSVLMISINQLDKMTGTDSDCPNNEPNFFKKHLCDDTKEAAFLNR AARKLRQFLKMNISEEFNDHLLRVSDGTQTLVNCTSKEEKTIKEQKKNDPCFLKRLL REIKTCWNKILKGSIHHHHHH
Endotoxin	< 0.2 EU/μg, determined by LAL method.

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Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant rat Interleukin-7 (IL-7), His remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rat Interleukin-7 (IL-7), His should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Il7 interleukin 7 [Rattus norvegicus]
Official Symbol	Il7
Synonyms	IL7; interleukin 7; interleukin-7; IL-7;
Gene ID	25647
mRNA Refseq	NM_013110
Protein Refseq	NP_037242
UniProt ID	Q91Y32

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