

Recombinant Human interleukin 7 Protein, His&Flag tagged

Cat. No. IL7-056H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human IL-7 protein (P13232) (Asp 26-His 177) with both His, Flag tag at the C-terminus was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	26-177aa
Description	Hematopoietic cytokine that plays an essential role in the development, expansion, and survival of naive and memory T-cells and B-cells thereby regulating the number of mature lymphocytes and maintaining lymphoid homeostasis. Mechanistically, exerts its biological effects through a receptor composed of IL7RA subunit and the cytokine receptor common subunit gamma/CSF2RG. Binding to the receptor leads to activation of various kinases including JAK1 or JAK3 depending on the cell type and subsequently propagation of signals through activation of several downstream signaling pathways including the PI3K/Akt/mTOR or the JAK-STAT5.
Tag	C-His&Flag
Molecular Mass	20 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.

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Storage Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

Storage Buffer Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

Reconstitution Reconstitute at 250 µg/mL in sterile water.

GENE INFORMATION

Gene Name IL7 interleukin 7 [Homo sapiens (human)]

Official Symbol IL7

Synonyms IL7; interleukin 7; interleukin-7; IL 7; IL-7;

Gene ID 3574

mRNA Refseq NM_000880

Protein Refseq NP_000871

MIM 146660

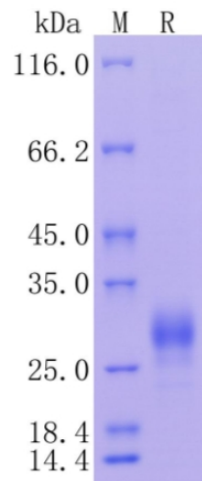
UniProt ID P13232

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**Protein on SDS-
PAGE under
reducing (R)
condition.**



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