

IL-7 active protein

Recombinant human IL-7 protein

CATALOG # AAA49006	HOST Baculovirus	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

IL-7; Recombinant human IL-7 protein; Interleukin-7 isoform 1; IL7; IL7; Interleukin-7; IL-7 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by absorbance at 280nm) (varies by lot)
Sequence Positions	26-177aa
Sequence	Ala DCDIEGKD GKQYESVLMV SIDQLLDSMK EIGSNCLNNE FNFFKRHICD ANKEGMFLFR AARKLRQFLK MNSTGDFDLH LLKVSEGTI LLNCTGQVKG RKPAALGEAQ PTKSLEENKS LKEQKKLNDL CFLKRLLEI KTCWNKILMG TKEH
Applicable Applications for IL-7 active protein	Bioactivity, SDS-PAGE
Species	Human
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Tag	His-Tag
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

ADDITIONAL INFORMATION

Related Product Information for IL-7 active protein	IL7, as known as interleukin-7 isoform 1, is a cytokine of the hemopoietin family that plays important roles in lymphocyte differentiation, proliferation, and survival. This protein is a hematopoietic growth factor secreted by stromal cells in the bone marrow and thymus. It is also produced by keratinocytes, dendritic cells, hepatocytes, neurons, and epithelial cells but is not produced by normal lymphocytes. It stimulates the proliferation of lymphoid progenitors and is important for proliferation during certain stages of B-cell maturation. IL7 and HGF form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. It can be produced locally by intestinal epithelial and epithelial goblet cells and may serve as a regulatory factor for intestinal mucosal lymphocytes. Recombinant human IL7, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for IL-7 active protein	Hormones & Cytokines ; Proteins
References	Iolyeva M., et al. (2013) Blood 122:2271-2281. Younas M., et al. (2013) J. Immunol. 191:3161-3168.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504677
NCBI GeneID	3574
NCBI Accession #	NP_000871.1
NCBI GenBank Nucleotide #	NM_000880.3
UniProt Accession #	P13232; Q5FBY5; Q5FBY9; A0N0L3
Molecular Weight	7,687 Da
NCBI Official Full Name	interleukin-7 isoform 1
NCBI Official Synonym Full Names	interleukin 7
NCBI Official Symbol	IL7
NCBI Official Synonym Symbols	IL-7
NCBI Protein Information	interleukin-7
UniProt Protein Name	Interleukin-7
UniProt Gene Name	IL7
UniProt Synonym Gene Names	IL-7
UniProt Entry Name	IL7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/il-7/49006>