

Product Data Sheet

IL-7 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70566
Synonyms:	IL-7; IL-7 interleukin-7; interleukin-7; Lymphopoietin -1; PBGF
Species:	Mouse
Source:	HEK293
Accession:	P10168 (E26-I154)
Gene ID:	16196
Molecular Weight:	22-28 kDa

DDODEDTIES	
PROPERTIES	
AA Sequence	ECHIKDKEGK AYESVLMISI DELDKMTGTD SNCPNNEPNF FRKHVCDDTK EAAFLNRAAR KLKQFLKMNI SEEFNVHLLT VSQGTQTLVN CTSKEEKNVK EQKKNDACFL KRLLREIKTC WNKILKGSI
Biological Activity	1.Mouse IL-7RA-Fc can bind Mouse IL-7-His with an affinity constant of 18.9 nM. 2.Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBL).The ED ₅₀ for this effect is 60-1000 pg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION	
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Background	IL-7, a hematopoietic cytokine, plays a pivotal role in the development, expansion, and survival of both naive and memory T-cells and B-cells, thereby regulating the population of mature lymphocytes and maintaining lymphoid homeostasis. Its biological effects are mediated through a receptor complex consisting of the IL7RA subunit and the cytokine receptor common subunit gamma/CSF2RG. Upon binding to the receptor, IL-7 activates various kinases, such as JAK1 or JAK3,

depending on the cell type, leading to the propagation of signals through downstream signaling pathways, including PI3K/Akt/mTOR or JAK-STAT5. This interaction with its receptor components IL7R and CSF2RG is central to the diverse cellular responses elicited by IL-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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