

IL-7 Protein, Human (HEK293, His)

Cat. No.:	HY-P70755
Synonyms:	Interleukin-7; IL-7; IL7
Species:	Human
Source:	HEK293
Accession:	P13232 (D26-H177)
Gene ID:	3574
Molecular Weight:	19-30 kDa

PROPERTIES

AA Sequence	<p>DCDIEGKDGK QYESVLMVSI DQLLD SMKEI GSNCLNNEFN</p> <p>FFKRHICDAN KEGMFLFRAA RKL RQFLKMN STGDFDLHLL</p> <p>KVSEGT TILL NCTGQVKGRK PAALGEAQPT KSLEENKSLK</p> <p>EQKKLNDLCF LKRL LQEIKT CWNKILMGTK EH</p>
Biological Activity	<p>1. The cell proliferation assay using PHA-activated human peripheral blood lymphocytes has an ED₅₀ value of 50-300 pg/mL.</p> <p>2. Mouse IL-7RA-Fc can bind Human IL-7-His with an affinity constant of 29.0 nM as determined in BLI assay.</p> <p>3. Measured in a cell proliferation assay using HT-2 mouse T lymphocyte cells. The ED₅₀ this effect is 1.822 ng/mL, corresponding to a specific activity of 5.489×10⁵ units/mg.</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	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. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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

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