

IL-7/LP-1, Mouse, Recombinant

Cat. No. : PCK352

General Information

Synonyms	Lymphopoietin 1(LP-1);pre-B-cell factor;h1b368;A630026106Rik
Species	Mouse
Expression host	E.coli
Sequence	MECHIKDKEGKAYESVLMISIDELDKMTGTDSNCPNNEPNFFRKHVCDTKEAAFLNRAARKL KQFLKMNISEEFNVHLLTVSQGTQTLVNCTSKKEKNVKEQKKNDACFLKRLREIKTCWNKILK GSI with polyhistidine tag at the C-terminus.
Accession	P10168.1
Tag	His-tag at the C-terminus
Mol mass	15.84 kDa
Expiration date	12 months
Bio activity	Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED50 for this effect is < 0.2 ng/mL. The specific activity of recombinant mouse IL-7 is > 5 × 10 ⁶ IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interleukin 7 (IL-7) is a protein that in humans is encoded by the IL7 gene. IL-7 stimulates the differentiation of multipotent (pluripotent) hematopoietic stem cells into lymphoid progenitor cells. It is important for proliferation during certain stages of B-cell maturation, T and NK cell survival, development and homeostasis.

SDS-PAGE

