

Active Recombinant Mouse IL7 Protein, His-Tagged

Cat. No. IL7-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IL7 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	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.
Form	Lyophilized powder
AA Sequence	MECHIKDKEGKAYESVLMISIDELDKMTGTDSNCPNNEPNFFRKHVCDDTKEAAFLN RAARKLKQFLKMNISEEFNVHLLTVSQGTQTLVNC TSKEEKNVKEQKKNDACFLKRLLREIKTCWNKILKGSi with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
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 x 10 ⁶ IU/mg.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography

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Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	Il7 interleukin 7 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Il7
Synonyms	Il-7; hlb368; A630026I06Rik
Gene ID	16196
mRNA Refseq	NM_001313888.1
Protein Refseq	NP_001300817.1
UniProt ID	A0A8C6HCD6

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