

Recombinant Murine Interleukin-7 (rm IL-7)

Synonyms: Lymphopoietin 1 (LP-1), pre-B cell factor.

Introduction: Interleukin-7 is a potent lymphoid cell growth factor produced primarily by stromal cells. IL-7 has been shown to support the proliferation and differentiation of pre B- and early T cells as well as displaying a biological effect on cells of NK and myeloid lineages.

Description: Recombinant murine IL-7 produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 130 amino acids and having a molecular mass of 14.9 kDa. The rm IL-7 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: lyophilized from a 0.22 µm filtered solution in 25 mM Sodiumphosphate, 200 mM NaCl, pH 7.5. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm IL-7 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rmIL-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm IL-7 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by SDS-PAGE / silver stain.

Endotoxicity: The endotoxin level is less than 1 EU/µg determined by LAL method

Amino Acid Sequence: MECHIKDKEG KAYESVLMIS IDELDKMTGT DSNCPNNEPN FFRKHVCDT KEAAFLNRAA RKLKQFLKMN ISEEFNVHLL TVSQGTQTLV NCTSKEEKNV KEQKNDACF LKRLLEIKT CWNKILKGS

Biological Activity: The ED₅₀ as determined by IL-7 induced STAT activation in murine AG14 cells is < 0.2 ng/ml, corresponding to a specific activity of 2 x 10⁶ IU/mg.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12340072
<i>medium</i>	10 µg	Cat.N°	12340073
<i>large</i>	50 µg	Cat.N°	12340075
<i>x-large</i>	250 µg	Cat.N°	12340077
<i>xx-large</i>	1000 µg	Cat.N°	12340078

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