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IL 7 Mouse

Interleukin-7 Mouse Recombinant
CYK0350

Product Overview

Name	IL 7 Mouse
Description	
Interleukin-7 Mouse Recombinant	
Accession (Primary)	P10168
Synonyms	
Lymphopoietin 1 (LP-1), pre-B cell factor, IL-7.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Filtered (0.2 µm) and lyophilized from a concentrated (1mg/ml) solution in 1×PBS, pH7.4 and 2% trehalose.	
Stability	
Lyophilized Interleukin-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL7 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 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
ECHIKDKEGK AYESVLMISI DELDKMTGTD SNCPNNEPNF FRKHVCDDTK EAAFLNRAAR KLKQFLKMNI SEEFNVHLLT VSQGTQTLVN CTSKEEKNVK EQKKNDACFL KRLLREIKTC WNKILKGSI.	
Biological Activity	
The ED 50 was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is less than 0.2 ng/ml, corresponding to a specific activity of > 5.0×10 6 IU/mg.	

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Solubility

It is recommended to reconstitute the lyophilized Interleukin 7 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

Title: Disruption of Bis Leads to the Deterioration of the Vascular Niche for Hematopoietic Stem Cells Publication: Stem Cells 28.2 (2010): 268-278. Link: IL 7 Mouse prospec publication

Precautions

IL 7 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P10168)