

**Product:** Interleukin-7, human, recombinant  
**Catalog #:** 11-IL-7H  
**Amount:** 5 µg

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**DESCRIPTION:** Recombinant human Interleukin 7 (rHuIL-7)  
rHuIL-7 is a single, non-glycosylated polypeptide chain containing 172 amino acids and having a molecular mass of 17412 Dalton  
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Asp-Cys-Asp-Ile  
*Escherichia coli* expression system

**SOURCE:**

**MOLECULAR WEIGHT:** 17.4 kDa

**PURITY:** > 98%, as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of rHuIL-7

**DIMERS & AGGREGATES:** Less than 1% as determined by silver stained SDS-PAGE gel analysis

**PROTEIN CONTENT:** Protein quantitation was carried out by 2 independent methods:  
- UV spectroscopy at 280 nm using the absorbency value of 0.418 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENcomputer analysis program of protein sequences  
- Analysis by RP-HPLC, using a standard solution of IL-7 as a Reference Standard

**FORM:** Purified, in 0.1% BSA

**CONCENTRATION:** 0.1 mg/ml

**STORAGE:** -20°C (aliquot), avoid freezing and thawing cycles

**BIOLOGICAL ACTIVITY:** rHuIL-7 is fully biologically active when compared to standard.  
The ED50 as determined by the dose-dependant stimulation of murine IXN/2B cells is < 0.5ng/ml, corresponding to a Specific Activity of 2 x 10<sup>6</sup> IU/mg.

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