

RECOMBINANT HUMAN IL-7

Catalog # 02577

5 mg per vial

Catalog # 02607

25 mg per vial

PRODUCT DESCRIPTION:

Interleukin 7 (IL-7) is a potent lymphoid cell growth factor which affects Pre-B, Pro-B and early T cells. It will also affect mature T cells in combination with other factors such as IL-2. Human IL-7 is a 17 kDa protein containing 153 amino acid residues.

SOURCE: A DNA sequence encoding human IL-7 was expressed in *E. coli*.

PURITY:

Greater than 97% as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1 ng per µg of the cytokine, as determined by the LAL method.

FORMULATION:

Lyophilized from a sterile-filtered solution in PBS containing 50 µg of bovine serum albumin per 1 µg of cytokine.

RECONSTITUTION:

It is recommended that sterile phosphate-buffered saline containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 1 µg/ml of the cytokine.

STABILITY/STORAGE:

The lyophilized powder is stable for greater than six months at -20°C to -70°C.

Reconstituted IL-7 can be stored under sterile conditions at 2°C to 4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freezing and thawing.

ACTIVITY:

The ED₅₀ measured as T cell growth factor activity in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes is typically 0.2-0.5 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg.

**THIS REAGENT IS FOR RESEARCH USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**