

## IL-7 Protein, Human, Recombinant V2

### General Information

Synonyms:	interleukin 7;IL-7;Interleukin-7
Protein Construction:	Asp26-His177
Species:	Human
Expression Host:	E. coli
Accession:	P13232
Molecular Weight:	17.5 kDa (Predicted and reducing conditions)

### QC Testing

Biological Activity:	Immobilized Human IL-7 at 0.5 µg/ml (100 µl/Well) on the plate. Dose response curve for Human IL-7R alpha, hFc Tag with the EC50 of 52.5 ng/ml determined by ELISA. Human IL-7 R alpha, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-7, No Tag with an affinity constant of 4.18 nM as determined in SPR assay (Biacore T200). Measured in a cell proliferation assay using murine 2E8 cells. The ED50 for this effect is 0.1 - 0.5 ng/mL (QC tested).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in 25mM PB, 250 mM NaCl (pH 6.8). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in 25mM PB, 250mM NaCl (pH 6.8). The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Interleukin-7 (IL7) plays a nonredundant role in T cell survival and homeostasis, which is illustrated in the severe T cell lymphopenia of IL7-deficient mice, or demonstrated in animals or humans that lack expression of either the

IL7R $\alpha$  or  $\gamma$  c chain, the two subunits that constitute the functional IL7 receptor.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481