

## Recombinant Human IL-2

<b>Cat. # and size:</b>	PIL2-10	10 µg
	PIL2-100	100 µg
	PIL2-1000	1000 µg

### Product Specifications

- Expression of Human Proteins in Human Cells
- Extreme low Endotoxin
- High Purity
- Animal Free and Xeno Free
- Tag Free

**Source:** Human cells derived

**Structure:** Glycosylated monomer

**Purity:** >95% by SDS-PAGE

**Endotoxin Level:** <0.5EU/ug

**Molecular Weight:** ~15kDa

**Formulation:** Lyophilized from a 0.2µm filtered solution in PBS without carrier protein

### Activity Assay

The specific activity was determined by the dose-dependent stimulation of the proliferation of mouse CTLL-2 cells (mouse cytotoxic T cell line).

### Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin to a desired concentration.

### Stability & Storage

Store in a manual defrost freezer. In general, the lyophilized protein is stable for 12 months if stored at -80°C. Reconstituted protein is stable for 4 weeks at 2 to 8°C under sterile conditions. Store the reconstituted protein in aliquots at -20°C to -80°C for up to 3 months under sterile conditions. Avoid repeated freeze-thaw cycles.

### Protein Description

Recombinant human IL-2 expressed in engineered human cells. IL-2 belongs to the IL-2 protein family. IL-2 is a 15 kDa glycosylated monomer. IL-2 is produced primarily by activated CD4+ T cells, but it is also expressed by naive CD8+ T cells, eosinophils, dendritic, and thymic cells. IL-2 is an essential activator of the immune response, it is required for the growth of T cells, activated B cells and T helper cell differentiation. IL-2 stimulates the activity of NK cells and is involved in anti-inflammatory reactions and in hematopoiesis.

### References

Malek, T. R., (2008) Annual Review of Immunology 26, 453-479.

Gearing A.J.H., et al (1987) JIM 99(1), 7-11