

## 32-190043: IL-2 (human) (Recombinant) (untagged)

**Application :** Functional Assay

**Reactivity :** Human

**Alternative Name :** Interleukin-2; Aldesleukin

### Description

Source :E. coli

Specific Interleukin-2 (IL-2) is a 133 amino acid glycoprotein with one intramolecular disulfide bond and variable glycosylation. It is secreted by activated T cells and induces proliferation and maturation of activated T cells, natural killer cells, and lymphokine activated killer cells. IL-2 also stimulates proliferation of antibody-producing B cells, activates neutrophils, and induces mononuclear cells to secrete IFN-gamma and TNF-alpha and -beta. Moreover, studies have shown that IL-2 is required for activation-induced apoptosis, an important hemeostatic mechanism in the immune system, which is involved in the maintenance of peripheral tolerance to self-antigens.

### Product Info

**Amount :** 10 µg

**Purification :** >=95% (SDS-PAGE)

Reconstitute 10µg vial with 100 µl sterile water to a concentration of 0.1mg/ml.

Reconstitute 50µg vial with 100 µl sterile water to a concentration of 0.5mg/ml.

Further dilute in other aqueous solutions.

Lyophilized from sterile 0.1% TFA, 70% acetonitrile.

**Storage condition :** Short Term Storage +4°C ; Long Term Storage-20°C ;Avoid freeze/thaw cycles. Stable for at least 1 year after receipt when stored at -80°C.

Working aliquots are stable for up to 3 months when stored at -20°C.

**Amino Acid :** The extracellular domain of human IL-2 (aa 21-153) with a N-terminal Met.

### Application Note

MW :~14kDa (SDS-PAGE)

Biological Activity: Measured in a cell proliferation assay using CTLL2 cells. The ED50 for this effect is typically 0.35-1.4ng/ml.

Endotoxin Content: <0.01EU/µg protein (LAL test; Lonza).