

## Datasheet

### IL2 (Human) Recombinant Protein

**Catalog Number:** P5822

**Regulation Status:** For research use only (RUO)

**Product Description:** Human IL2 (133 a.a.) full-length recombinant protein with His tag expressed in Barley grain (*Hordeum vulgare*).

**Host:** Plants

**Theoretical MW (kDa):** 22

**Applications:** Func, SDS-PAGE, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Form:** Lyophilized

**Preparation Method:** Barley grain (*Hordeum vulgare*) expression system

**Purification:** Chromatography

**Concentration:** 100 ug/mL

**Purity:** > 98% by SDS-PAGE

**Endotoxin Level:** Endotoxin level is less than 0.005ng per ug protein (0.05EU/ug) as measured by turbidimetric kinetic assay

**Activity:** Bioactivity of recombinant human IL2 is assayed by measuring its dose dependent effect on proliferation of CTLL-2 cells. The ED50 for this effect is typically < 0.25 ng/mL, corresponding to a specific activity > 4 x10<sup>6</sup> U/mg.

**Storage Buffer:** Lyophilized from PBS, pH 7.2

**Storage Instruction:** Store at -20°C on dry atmosphere. After reconstitution with sterile water to a concentration of no less than 100 ug/mL, store at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 3558

**Gene Symbol:** IL2

**Gene Alias:** IL-2, TCGF, lymphokine

**Gene Summary:** The protein encoded by this gene is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. [provided by RefSeq]