

## Interleukin-2 with its alpha Receptor

Human, IL2 with IL2RA

Expressed in *E.Coli*

Cat. No. CBCRY33

Lot. No. (See product label)

### BACKGROUND

Interleukin-2 (IL-2) is an immunoregulatory cytokine that binds sequentially to the alpha (IL-2Ralpha), beta (IL-2Rbeta), and common gamma chain (gammac) receptor subunits.

### MOLECULAR DESCRIPTION

**Protein classification:** Immune System

**Structure Weight:** 40207.9 Da

**Polymer:** 1

**Molecule:** Interleukin-2

**Chains:** A

**Type:** polypeptide (L)

**Chain Length:** 133 amino acids

**Polymer:** 2

**Molecule:** Interleukin-2 receptor alpha chain

**Chains:** B

**Type:** polypeptide (L)

**Chain Length:** 219 amino acids

### CRYSTAL INFORMATION

**PDB ID:** [1Z92](#)

**MMDB ID:** [33820](#)

**Source:** E.Coli

**Method:** X-Ray Diffraction

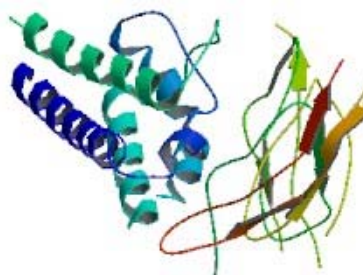
**Resolution:** 2.80 Å

### PRIMARY CITATION

Rickert, M., Wang, X., Boulanger, M.J., Goriatcheva, N., Garcia, K.C. (2005) The structure of interleukin-2 complexed with its alpha receptor. *Science* 308: 1477-1480

### FOR RESEARCH USE ONLY

### CRYSTAL STRUCTURE



### GENE INFORMATION

**Gene Name:** [IL2](#)

**Synonyms:** IL-2; TCGF; lymphokine; T cell growth factor; aldesleukin; interleukin-2; involved in regulation of T-cell clonal expansion; Aldesleukin

**UniProt ID:** [P60568](#)

**GeneID:** [3558](#)

**Chromosome Location:** 4q26-q27

**Function:** cytokine activity; interleukin-2 receptor binding; protein binding; growth factor activity; kinase activator activity

**Gene Name:** [IL2RA](#)

**Synonyms:** RP11-536K7.1; CD25; IDDM10; IL2R; TCGFR; Interleukin-2 receptor; OTTHUMP0000019030; OTTHUMP0000044870; interleukin 2 receptor, alpha chain; IL-2-RA; IL2-RA; CD25 antigen; IL2 receptor alpha subunit; TAC antigen; interleukin 2 receptor, alpha

**UniProt ID:** [P60568](#)

**GeneID:** [3558](#)

**Chromosome Location:** 10p15-p14

**Function:** receptor activity; interleukin-2 receptor activity

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45-16 Ramsey Road Shirley, NY 11967, USA  
Tel: 1-866-588-6325 · Fax: 1-631-207-8356  
E-mail: [info@creative-biostructure.com](mailto:info@creative-biostructure.com)  
[www.creative-biostructure.com](http://www.creative-biostructure.com)