

## Product datasheet for **TP790117-1000**

### IL2 (NM\_000586) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interleukin 2 (IL2), Tag free, secretory expressed in CHO cells, 1mg
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC210013, encoding the region Ala21-Thr153 of IL2
Tag:	Tag free
Predicted MW:	15.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a sterile solution containing PB, pH 7.4
Endotoxin:	< 1 EU per 1 µg of the protein by the LAL
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_000577</a>
Locus ID:	3558
UniProt ID:	<a href="#">P60568</a>
RefSeq Size:	822
Cytogenetics:	4q27
RefSeq ORF:	459
Synonyms:	IL-2; lymphokine; TCGF



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**Summary:**

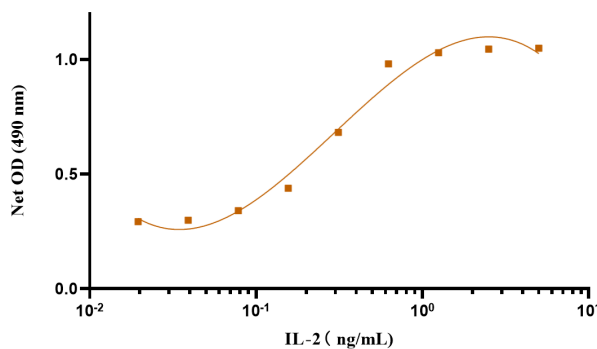
This gene is a member of the interleukin 2 (IL2) cytokine subfamily which includes IL4, IL7, IL9, IL15, IL21, erythropoietin, and thrombopoietin. The protein encoded by this gene is a secreted cytokine produced by activated CD4+ and CD8+ T lymphocytes, that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2R) is a heterotrimeric protein complex whose gamma chain is also shared by IL4 and 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, Sep 2020]

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

Allograft rejection, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Jak-STAT signaling pathway, T cell receptor signaling pathway, Type I diabetes mellitus

**Product images:**


Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The ED50 for this effect is 0.2~0.3 ng/mL. The specific activity of recombinant human IL-2 is  $>1.00 \times 10^7$  IU/mg, which is calibrated against the human IL-2 WHO International Standard (NIBSC code: 86/500).