

Product datasheet for **TP790117**

IL2 (NM_000586) Human Recombinant Protein

Product data:

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|------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human interleukin 2 (IL2), Tag free, secretory expressed in CHO cells, 100ug |
| Species: | Human |
| Expression Host: | CHO |
| Tag: | Tag Free |
| Predicted MW: | 15.4 kDa |
| Concentration: | >50 ug/mL as determined by microplate BCA method |
| Purity: | > 95% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | Lyophilized from a sterile solution containing phosphate buffer, pH7.4. |
| Endotoxin: | < 1 EU per 1 µg of the protein by the LAL |
| 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: | NP_000577 |
| Locus ID: | 3558 |
| UniProt ID: | P60568 , Q0GK43 |
| 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: