

Active Recombinant Human IL2 Protein, Pre-aliquoted

Cat. No. IL2-07H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL2 Protein, Ala21 - Thr153, with an N-terminal Met, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala21-Thr153, with an N-terminal Met
Description	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.
Bio-activity	Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The ED50 for this effect is 0.05-0.25 ng/mL
Molecular Mass	Predicted Molecular Mass:15 kDa SDS-PAGE: 13 kDa, reducing conditions

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N-terminal Sequence Analysis	Met
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 97% by SDS-PAGE under reducing conditions and visualized by silver stain.
Stability	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. • 6 months from date of receipt at room temperature as supplied. • 12 months from date of receipt at 2-8 centigrade as supplied. • 1 month at 2-8 centigrade under sterile conditions after reconstitution. • 3 months at -20 to -80 centigrade under sterile conditions after reconstitution.
Reconstitution	For a stock solution, reconstitute at 100 μg/mL in sterile 100 mM Acetic Acid, or simply roll Pre-aliquoted directly into cell culture medium for immediate use.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	IL2 interleukin 2 [Homo sapiens (human)]
Official Symbol	IL2
Synonyms	IL2; interleukin 2; IL-2; TCGF; lymphokine; interleukin-2; T cell growth factor; aldesleukin; involved in regulation of T-cell clonal expansion
Gene ID	3558
mRNA Refseq	NM_000586

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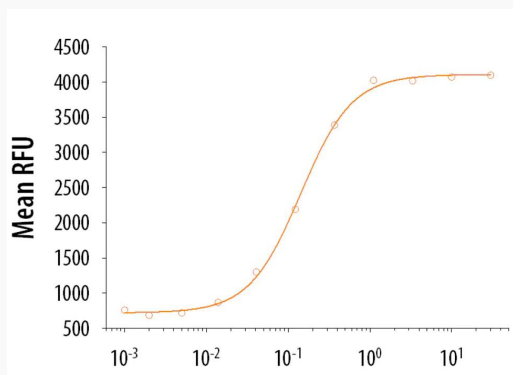
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Protein Refseq NP_000577

MIM 147680

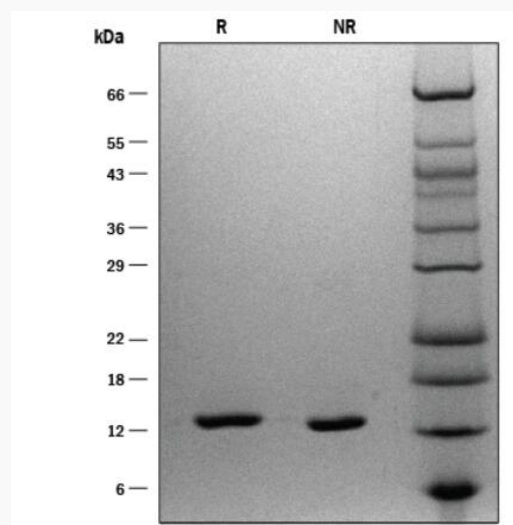
UniProt ID P60568

Bio-activity



Recombinant Human IL-2 stimulates cell proliferation of the CTLL-2 mouse cytotoxic T cell line. The ED50 for this effect is 0.05-0.26 ng/mL.

SDS-PAGE



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1 µg/lane of Recombinant Human IL-2 was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining, showing a single band at 13 kDa.

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