

Active Recombinant Human IL2 Protein (aa 21-153), N-Fc-tagged

Cat. No. IL2-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human IL-2 (aa 21-153) is fused to the N-terminus of the Fc region of human IgG4 was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	21-153
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.
Molecular Mass	~40 kDa (SDS-PAGE)

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Endotoxin	<5 EU/mg protein (LAL test; Lonza).
Purity	≥95% (SDS-PAGE)
Stability	Stable for at least 1 year after receipt when stored at -20 centigrade. Working aliquots are stable for up to 3 months when stored at -20 centigrade.
Storage	Short Term Storage: +4 centigrade Long Term Storage: -20 centigrade
Storage Buffer	Lyophilized from 0.2 µm-filtered solution in PBS.
Reconstitution	Reconstitute 50 µg vial in 50 µL sterile water. Add 1 × PBS to the desired protein concentration.
Handling	Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.
Shipping	BLUE ICE

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

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mRNA Refseq	NM_000586
Protein Refseq	NP_000577
MIM	147680
UniProt ID	P60568

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