Recombinant Human Interleukin-2 His Tag

Cat. No. IL2-402H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Interleukin-2 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 133 amino acids fragment (21-153) having a molecular weight of 20kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The IL-2 His is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
ProteinLength	21-153 a.a.
Description	IL2 is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (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.
Form	Interleukin-2 His-Tag protein is supplied in 1xPBS, 50% glycerol.
Purity	Greater than 90.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered clear solution.

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Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

GENE INFORMATION

Gene Name	IL2 interleukin 2 [Homo sapiens]
Official Symbol	IL2
Synonyms	IL-2; TCGF; lymphokine; T-cell growth factor; Aldesleukin, Interleukin-2; interleukin-2 precursor; involved in regulation of T-cell clonal expansion; IL2; interleukin 2
Gene ID	3558
mRNA Refseq	NM_000586
Protein Refseq	NP_000577
MIM	147680
UniProt ID	P60568
Chromosome Location	4q26-q27
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; T cell receptor signaling pathway; Type I diabetes mellitus
Function	interleukin-2 receptor binding; kinase activator activity

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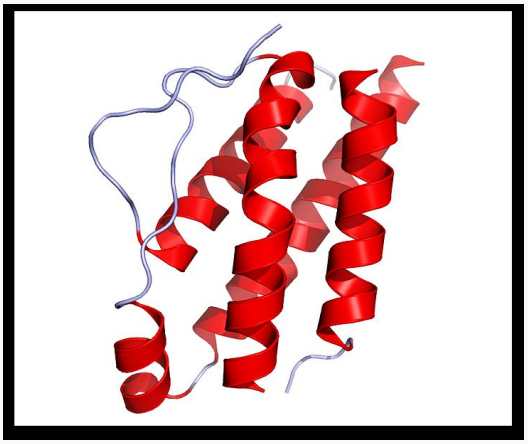
Human Interleukin 2crystal structure.



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