

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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