

Active Recombinant Mouse Interleukin-2, His Tag

Cat. No. IL2-403M Lot. No. (See product label)

SPECIFICATION

Product Overview	Interleukin-2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 170 amino acids (21-169 a.a) and having a molecular mass of 19.5kDa. The mouse IL-2 is fused to a 20 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.
Species	Mouse
Source	Mouse
ProteinLength	21-169 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	The Mouse IL2 protein (0.5mg/ml) is supplied in Phosphate Buffered Saline (pH7.4) 0.1M NaCl, and 20% glycerol.
Purity	Greater than 90.0% as determined by SDS-PAGE.

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Bio-activity	Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is < 2.5 ng/ml, corresponding to a specific activity of less than 400,000units/mg.
Physical Appearance	Sterile Filtered colorless clear solution.
Amino acid sequence	MGSSHHHHH SSGLVPRGSH MAPTSSSTSS STAEAQQQQQ QQQQQQHHLE QLLMDLQELL SRMENYRNLK LPRMLTFKfy LPKQATELKD LQCLEDELGP LRHVLDLTQS KSFQLEDAEN FISNIRVTVV KLKGS DNTFE CQFDDESATV VDFLRRWIAF CQSVISTSPQ.
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 [<i>Mus musculus</i>]
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	16183
mRNA Refseq	NM_008366
Protein Refseq	NP_032392
UniProt ID	P04351


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Chromosome Location	3 B-C; 3 19.2 cM
Pathway	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
Function	cytokine activity; growth factor activity; interleukin-2 receptor binding; protein binding

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