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	MGSSHHHHHH SSGLVPRGSH MAPTSSSTSS STAEAQQQQQ QQQQQQQHLE QLLMDLQELL SRMENYRNLK LPRMLTFKFY LPKQATELKD LQCLEDELGP LRHVLDLTQS KSFQLEDAEN FISNIRVTVV KLKGSDNTFE 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 [Mus musculus]
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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