

Recombinant Mouse Interleukin 2, His-tagged

Cat. No. IL2-538M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IL2 protein was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	Mouse
Description	IL2 is an immunoregulatory lymphokine produced by T-cells in response to proteinic or mitogenic stimulation. IL2 signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL2 stimulates growth and differentiation of B-cells, NK cells, lymphokine activated killer cells, monocytes, macrophages and oligodendrocytes.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in PBS, pH 7.4, containing 20% glycerol, and 0.1M NaCl.
Purity	> 95% by SDS -PAGE
Sequence	21-169 amino acids: MGSSHHHHH SSGLVPRGSH MAPTSSSTSS STAE AQQQQQ QQQQQQQHLE QLLMDLQELL SRMENYRNKLPRMLTFKFY LPKQATELKD LQCLEDELGP LRHVLDLTQS KSFQLEDAEN FISNIRVTVV KLKGS DNTFECQFDDESATV VDFLRRWIAF CQSVISTSPQ
Molecular Mass	19.5 kDa (170 aa), confirmed by MALDI-TOF.

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Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	IL2
GENE INFORMATION	
Gene Name	IL2interleukin 2 [<i>Mus musculus</i>]
Synonyms	IL2;interleukin 2; IL-2; interleukin-2; OTTMUSP00000007837; TCGF;T-cell growth factor
Gene ID	16183
mRNA Refseq	NM_008366
Protein Refseq	NP_032392
UniProt ID	P04351
Chromosome Location	3 B-C; 3 19.2 cM
Pathway	Allograft rejection; Autoimmunethyroid disease; Cytokine-cytokine receptor interaction; Graft-versus-host disease; Jak-STAT signaling pathway; T cell receptor signaling pathway; Type1 diabetes mellitus
Function	cytokine activity; growth factor activity; interleukin-2 receptor binding; protein binding; kappa-type opioid receptor binding; carbohydrate binding

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**Human IL2 crystal
structure**

