

Active Recombinant Mouse IL2 Protein, His-Tagged

Cat. No. IL2-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IL2 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	Interleukin-2 (IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system. It is a 15,5 - 16 kDa protein that regulates the activities of white blood cells (leukocytes, often lymphocytes) that are responsible for immunity. IL-2 is part of the body's natural response to microbial infection, and in discriminating between foreign ("non-self") and "self". IL-2 mediates its effects by binding to IL-2 receptors, which are expressed by lymphocytes.
Form	Lyophilized powder
AA Sequence	MAPTSSSTSSSTAEAAQQQQQQQQQQHLEQLLMDLQELLSRMENYRNKLPRM LTFKFYLPKQATELKDLCLEDELGPLRHVLDLTQS KSFQLEDAENFISNIRVTVVKLGSDNTFECQFDDSATVVDFLRRWIAFCQSIISTSP Q with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Bio-activity	Measure by its ability to induce CTLL-2 cells proliferation. The ED50 for this effect is <0.3 ng/mL. The specific activity of recombinant mouse IL-2 is approximately >3 x 10 ⁶ IU/mg.

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Purity	≥98% as determined by SDS-PAGE and HPLC. Purified by Ni-NTA chromatography.
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	Il2 interleukin 2 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL2
Synonyms	Il-2
Gene ID	16183
mRNA Refseq	NM_008366.3
Protein Refseq	NP_032392.1
UniProt ID	P04351

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