

# Active Recombinant Mouse IL2 Protein, His-Tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant mouse IL2 Protein, His-tagged was expressed in E. coli cell
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Lyophilized powder
<b>AA Sequence</b>	MAPTSSSTSSSTAEAQQQQQQQQQQHLQQLLMDLQELLSRMENYRNKLP LTFKFYLPKQATELKDLCLEDELGPLRHVLDLTQS KSFQLEDAENFISNIRVTVVKLGSDNTFECQFDDESATVVDFLRRWIAFCQSIISTSP Q with polyhistidine tag at the C-terminus
<b>Endotoxin</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Bio-activity</b>	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 <sup>6</sup> IU/mg.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	≥98% as determined by SDS-PAGE and HPLC. Purified by Ni-NTA chromatography.
<b>Storage Buffer</b>	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Notes</b>	Please use within one month after protein reconstitution.

## GENE INFORMATION

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

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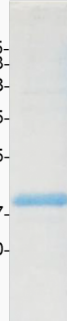
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