

**IL-2 (Interleukin-2), Human**

v. 240801

<b>Catalog number</b>	C01004-5UG / C01004-20UG / C01004-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<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>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	MAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKGYMPKKATELK HLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYAD ETATIVEFLNRWITFCQSIISTLT with polyhistidine tag at the C-terminus
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	Measure by its ability to induce proliferation in CTLL-2 cells. The ED <sub>50</sub> for this effect is <0.2 ng/mL. The specific activity of recombinant human IL-2 is approximately >2.5 x 10 <sup>7</sup> IU/mg. Measure by its ability to induce proliferation in NK cells. The ED <sub>50</sub> for this effect is <46 ng/mL.
<b>Purity</b>	>95% as determined by SDS-PAGE analysis. >95% as determined by SEC-HPLC.
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Stability &amp; Storage</b>	This product is stable after storage at: <ul style="list-style-type: none"> <li>-20°C for 12 months in lyophilized state from date of receipt.</li> <li>-20°C or -80°C for 6 months under sterile conditions after reconstitution.</li> </ul> Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant human IL-2

*For research use only.*