

<b>Catalog number</b>	C01004-GMP-100 / C01004-GMP-1000
<b>Package</b>	100 µg / 1 mg
<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>Expression System</b>	<i>Escherichia coli</i>
<b>Species of Origin</b>	Human
<b>Affinity Tag</b>	His Tag (C-term)
<b>Sequence</b>	Ala21-Thr153
<b>Endotoxin level</b>	<0.01 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.
<b>Mycoplasma</b>	Not detected
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of NaPi buffer, 0.018% SDS, pH 7.5.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 0.5 mg/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.

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Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

Testing and traceability of raw material

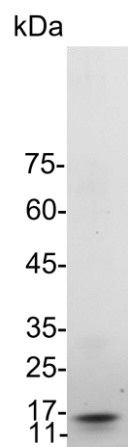
**Specification**

- Animal-free reagent and laboratory
- Manufactured and tested under GMP guideline
- Testing and traceability of raw material
- Records of the maintenance and equipment calibration
- Personnel training records
- Batch-to-batch consistency
- Documentation of QA control and process changes
- Manufactured and tested under an ISO 13485:2016 certified quality management system
- Stability monitor of product shelf-life

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**Reference**

1. Malek TR. (2008) *Annu Rev Immunol.* 26: 453-79.
2. Gaffen SL, Liu KD. (2004) *Cytokine.* 28,3: 109-23.
3. Varas A et al. (1998) *Dev Immunol.* 6,1-2: 141-7.
4. Abbas AK et al. (2018) *Sci Immunol.* 3,25: eaat1482.



SDS-PAGE analysis of GMP® IL-2, Human

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*For Research Use Only. Not for use in diagnostic or therapeutic procedures.*