

## PRODUCT INFORMATION

**Croyez GMP® IL-10 (Interleukin-10), Human**

<b>Catalog number</b>	C01012-GMP-100 / C01012-GMP-1000
<b>Package</b>	100 µg / 1 mg
<b>Description</b>	Interleukin-10 (IL-10), also known as human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine. In humans, IL-10 is encoded by the IL-10 gene. IL-10 signals through a receptor complex consisting of two IL-10 receptor-1 and two IL-10 receptor-2 proteins. Consequently, the functional receptor consists of four IL-10 receptor molecules. IL-10 binding induces STAT3 signaling via the phosphorylation of the cytoplasmic tails of IL-10 receptor-1 + IL-10 receptor-2 by JAK1 and Tyk2 respectively.
<b>Source</b>	<i>Escherichia coli</i> Animal-free reagent and laboratory Manufactured and tested under GMP guideline
<b>Sequence</b>	MSAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIIRANDQYLTAALHNLDEAVKFD MGAYKSSKDDAKITVILRISKTKQLYVTAQDEDQPVLLKEMPEIPKTITGSETNLLF FWETHGTKNYFTSVAHPNLFIA TKQDYWVCLAGGPPSITDFQILENQA with polyhistidine tag at the C-terminus
<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 MC/9-2 cells proliferation. The ED <sub>50</sub> for this effect is <1 ng/mL. The specific activity of recombinant human IL-10 is approximately >1 x10 <sup>6</sup> IU/ mg.
<b>Purity</b>	>98% as determined by SDS-PAGE. Purified by Ni-NTA chromatography.
<b>Formulation</b>	The protein was lyophilized from a solution containing 1X 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 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. This product is stable for one year upon receipt, when handled and stored as instructed. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C. Avoid repeated freeze/thaw cycles.
<b>Note</b>	Please use within one month after protein reconstitution.
<b>Specification</b>	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and

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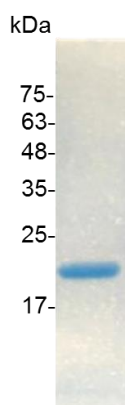
GMP-certified facility. The processes include:

- 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. Saraiva M, O'Garra A. (2010) *Nat Rev Immunol.* 10,3: 170-81.
2. Ouyang W, O'Garra A. (2019) *Immunity.* 50,4: 871-891.
3. Gabryšová, L. et al. (2014) *Curr Top Microbiol Immunol.* 380: 157-90.
4. Moore, KW. et al. (2001) *Annu Rev Immunol.*19: 683-765.



SDS-PAGE analysis of Croyez GMP® IL-10, Human

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