

## PRODUCT INFORMATION

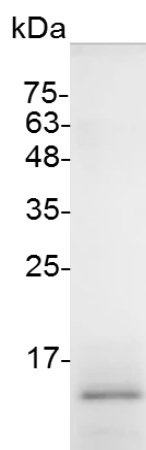
**Croyez GMP® IL-15 (Interleukin-15), Human**

<b>Catalog number</b>	C01017-GMP-100 / C01017-GMP-1000
<b>Package</b>	100 µg / 1 mg
<b>Description</b>	Interleukin-15 (IL-15) is a cytokine with structural similarity to Interleukin-2 (IL-2). Like IL-2, IL-15 binds to and signals through a complex composed of IL-2/IL-15 receptor beta chain (CD122) and the common gamma chain (gamma-C, CD132). IL-15 is secreted by mononuclear phagocytes (and some other cells) following infection by virus(es). This cytokine induces cell proliferation of natural killer cells; cells of the innate immune system whose principal role is to kill virally infected cells.
<b>Source</b>	<i>Escherichia coli</i> Animal-free reagent and laboratory Manufactured and tested under GMP guideline
<b>Sequence</b>	NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGD ASIHDTVENLILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQSFVHVQMFINT SLE with polyhistidine tag at the N-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 MO7e human megakaryocytic leukemic proliferation. The ED <sub>50</sub> for this effect is 0.5-3 ng/mL. The specific activity of recombinant Croyez GMP® human IL-15 is approximately 1.5 x 10 <sup>8</sup> IU/mg.
<b>Purity</b>	>98% as determined by SDS-PAGE analysis. 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 GMP-certified facility. The processes include:

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- 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. Abadie V, Jabri B. (2014) *Immunol Rev.* 260,1: 221-34.
  2. Patidar, M. et al. (2016) *Cytokine Growth Factor Rev.* 31: 49-59.
  3. Guo, Y. et al. (2017) *Cytokine Growth Factor Rev.* 38: 10-21.
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SDS-PAGE analysis of Croyez GMP<sup>®</sup> IL-15, Human

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