

PRODUCT INFORMATION

Croyez GMP® IL-21 (Interleukin-21), Human

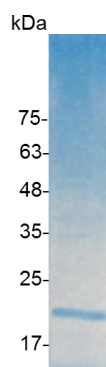
Catalog number	C01026-GMP-100 / C01026-GMP-1000
Package	100 µg / 1 mg
Description	Interleukin-21 (IL-21) belongs to the IL-15/IL-21 family. It is a cytokine with immunoregulatory activity. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. IL-21 is a cytokine that has potent regulatory effects on cells of the immune system, including natural killer (NK) cells and cytotoxic T cells that can destroy virally infected or cancerous cells. This cytokine induces cell division/proliferation in its target cells.
Source	<i>Escherichia coli</i> Animal-free reagent and laboratory Manufactured and tested under GMP guideline
Sequence	MQDRHMIRMRLIDIVDQLKNYVNDLVPEFLPAPEDVETNCEWSAFSCFQKAQ LKSANTGNNERIINVSIIKLRKPPSTNAGRRQKHRLTCPSCDSYEKKPPKEFLE RFKSLQKMIHQHLSSRTHGSEDS with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to enhance IFN gamma secretion in NK-92 cells. The ED ₅₀ for this effect is <10 ng/mL.
Purity	>95% as determined by SDS-PAGE. Purified by Ni-NTA chromatography.
Formulation	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ 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.
Storage	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.
Note	Please use within one month after protein reconstitution.
Specification	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and

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

Reference

1. Sarra M. et al. (2012) *Inflamm Allergy Drug Targets*. 11,4: 313-9.
2. Leonard WJ, Spolski R. (2005) *Nat Rev Immunol*. 5,9: 688-98.
3. Brandt K. et al. (2007) *Cytokine Growth Factor Rev*. 18,3-4: 223-32.
4. Sim GC, Radvanyi L. (2014) *Cytokine Growth Factor Rev*. 25,4: 377-90.



SDS-PAGE analysis of Croyez GMP® IL-21, Human

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