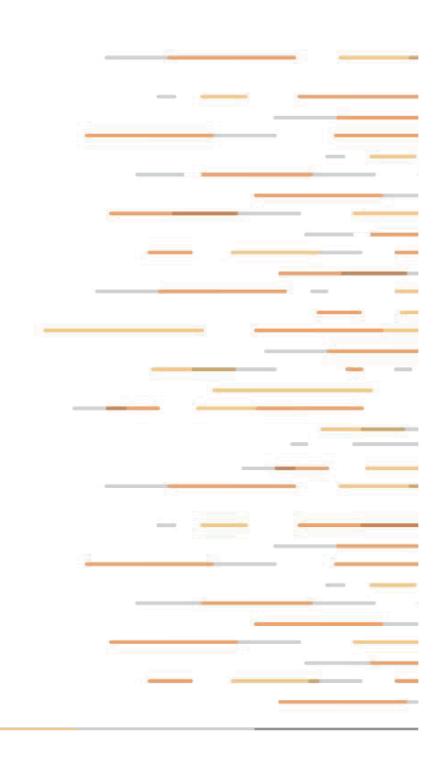
CHAMOT

Recombinant IL-21, Human, GMP

CM025-100HPG

CM025-1000HPG





- 1 Product Specifications
- 2 Product Note
- 3 Storage/Shipping
- 4 Scientific Data



Product Datasheet

Recombinant IL-21, Human, GMP

Catalog#	CM025-100HPG	CM025-1000HPG
Size	100 ug	1 mg

Product Specifications

Background

Interleukin-21 (IL-21) belongs to the IL-15/IL-21 family, which exerts pleiotropic immune regulations. IL-21 produced primarily by natural killer T (NKT) cells, T follicular helper (TFH) cells and TH17 cells. As a pleiotropic cytokine, IL-21 has been shown to regulate both innate and humoral immunity. It has potent inhibitory activity towards the activation and maturation of granulocyte-macrophage colony-stimulating factor (GM-CSF)-induced dendritic cells (DCs). In B cells, IL-21 has a major role in the development of immunoglobulin responses. In T cells, it is required to facilitate the functional differentiation of several CD4+ T cell subsets. In addition, the ability of IL-21 to enhance the cytotoxic activity of both CD8+ T cells and NK cells makes it as a potential antitumor agent.

Synonyms	interleukin 21, Za11, IL21
Uniprot ID	Q9HBE4
Molecular Weight	The protein has a calculated MW of 16.2 kDa. The protein migrates as 20 kDa under reducing condition (SDS-PAGE analysis).
Expression System	Escherichia coli
Purity	>95% as determined by SDS-PAGE analysis.
Activity	Measure by its ability to enhance IFN gamma secretion in NK-92 cells. The ED $_{50}$ for this effect is <10 ng/mL.
Endotoxin Level	<0.05 EU per 1 µg of the protein by the LAL method.
Protein Sequence	MQDRHMIRMRQLIDIVDQLKNYVNDLVPEFLPAPEDVETNCEWSAFSCFQKAQLKSANTGNNERIIN VSIKKLKRKPPSTNAGRRQKHRLTCPSCDSYEKKPPKEFLERFKSLLQKMIHQHLSSRTHGSEDS with polyhistidine tag at the C-terminus.
Form	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.

Product Note

Application

Cell Culture

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Storage/Shipping

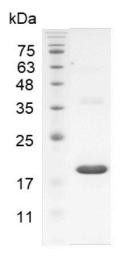
Stability & Storage

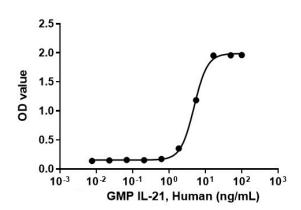
Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Shipping

Blue Ice

Scientific Data





SDS- PAGE analysis of GMP human IL-21

GMP Human IL-21 Protein, His Tag, E. coli enhances IFN gamma secretion in NK-92 cells, with the

ED₅₀ <10 ng/mL

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. www.chamot-bio.com

Tel: 021-51880030 Mail: info@chamot-bio.com QQ: 864920491