Active Recombinant Human IL21 Protein (Gln32-Ser162), GMP Grade, Animal-Free

Cat. No. IL21-20HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant human IL-21 protein (Gln32-Ser162) with a N-terminal Met was expressed in E. coli, produced in an Animal-Free laboratory and manufactured and tested under cGMP guidelines
Species	Human
Source	E.coli
ProteinLength	Gln32-Ser162
Description	This gene encodes a member of the common-gamma chain family of cytokines with immunoregulatory activity. The encoded protein plays a role in both the innate and adaptive immune responses by inducing the differentiation, proliferation and activity of multiple target cells including macrophages, natural killer cells, B cells and cytotoxic T cells. Dysregulation of this gene plays a role in multiple immune-mediated diseases including lupus, psoriasis and chronic inflammatory diseases. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Bio-activity	Measured by its ability to enhance IFN-gamma secretion in NK-92 human natural killer lymphoma cells. The ED50 for this effect is ≤8 ng/mL.
Molecular Mass	Predicted Molecular Mass: 15 kDa SDS-PAGE: 16 kDa, reducing conditions

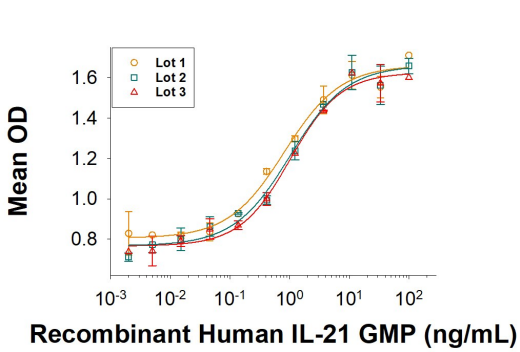
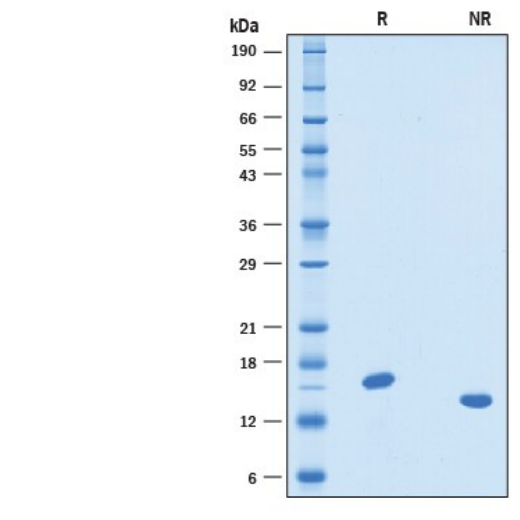
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N-terminal Sequence Analysis	Met-Gln-Asp-Arg-His-Met-Ile-Arg-Met-Arg
Endotoxin	<0.10 EU/ μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 100-200 μg/mL in PBS.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	IL21 interleukin 21 [Homo sapiens]
Official Symbol	IL21
Synonyms	IL21; interleukin 21; interleukin-21; IL 21; Za11; interleukin-21 isoform; IL-21;
Gene ID	59067
mRNA Refseq	NM_001207006

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Protein Refseq	NP_001193935
MIM	605384
UniProt ID	Q9HBE4
Bioactivity	
SDS-PAGE	

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