

Recombinant Human interleukin 21 Protein, Tag Free, Animal Free

Cat. No. IL21-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL-21 (30-162aa) without tag was expressed in E. coli and purified by using conventional chromatography techniques. Produced using non-animal reagents in an animal-free laboratory.
Species	Human
Source	E.coli
ProteinLength	30-162aa
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.
Tag	Non
Form	Liquid
Bio-activity	The activity is determined by the IFN- γ ELISA in a using NK-92 human natural killer cells. The ED50 range \leq 4 ng/mL.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	15.5 kDa
AA Sequence	MQGQDRHMIRMRLIDIVDQLKNYVNDLVPEFLPAPEDVETNCEWSAFSCFQKAQL KSANGNNERIINVSIKKLRKPPSTNAGRRQKHRLTCPSCDSYEKKPPKEFLERFKSL LQKMIHQHLSSRTHGSEDS
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	Phosphate-Buffered Saline (pH 7.4)
Concentration	0.25 mg/mL (determined by absorbance at 280nm)
References	1. Gui G., et al. (2017) Clin Immunol. 183:266-272. 2. Parrish-Novak J., et al. (2000) Nature. 408(6808):57-63.

GENE INFORMATION

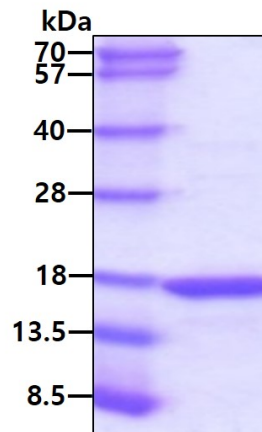
Gene Name	IL21 interleukin 21 [Homo sapiens (human)]
Official Symbol	IL21

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Synonyms	IL21; interleukin 21; Za11; IL-21; CVID11; interleukin-21
Gene ID	59067
mRNA Refseq	NM_021803
Protein Refseq	NP_068575
MIM	605384
UniProt ID	Q9HBE4

SDS-PAGE

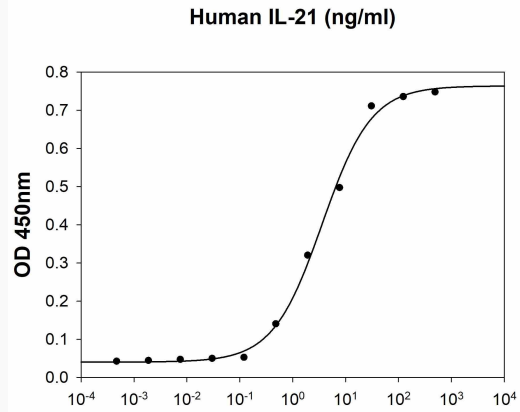
3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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Activity



Human IL-21 stimulates IFN- γ secretion of the NK-92 human natural killer cells. The ED50 range \leq 4 ng/mL.

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