

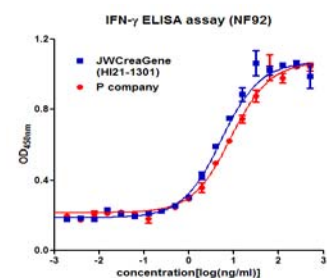
DATA SHEET

Product Information

Product Name	: Recombinant Human Interleukin-21 (rhIL-21)
Synonyms	: Za11
Description	: Recombinant human Interleukin-21 (rhIL-21) produced in <i>E. coli</i> is a non-glycosylated 15.6 KDa protein containing 134 amino acids. IL-21 has a role in the proliferation and maturation of natural killer cells from bone marrow, in the proliferation of mature B cells under costimulation with anti-CD40 monoclonal antibody. IL-21 enhances proliferation, cytotoxic activity, and IFN γ production by CD8-effector T cell, and induces terminal differentiation of activated natural killer(NK) cells. IL-21 exerts its effect through binding to a specific type I cytokine receptor, IL-21R.
NCBI Accession No.	: NM_021803.3
Amino acid sequence	: MAPARSPSPSTQPWEHVNAIQEARRLLNLSRDTA AEMNETVEVISEMFDLQE PTCLQTRLELYKQGLRGLTKLKGPLTMMASHYKQHCPPTPETS CATQIITF ESFKENLKDFLLVIPFDCWEPVQE
Molecular Mass	: 15.56 kDa (134 aa)
Protein Tags	: No tagging
Source	: <i>E. coli</i> .
Cat. No.	: HIL21-10, HIL21-25, HIL21-50, HIL21-100, HIL21-250, HIL21-500
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
Cross Reactivity	: Mouse

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Purity	: Greater than 98 % by RP-HPLC and SDS-PAGE
Specificity	: Using Western blot, detection
Concentration	: 0.1 mg/ml, Bradford method Determined by the dose-dependent secretion of interferon gamma by human natural killer lymphoma NK-92 cells.
Biological Activity	: The ED ₅₀ is 1~5 ng/ml, corresponding to a specific activity of $2.0 \times 10^5 \sim 1.0 \times 10^6$ U/mg.
Endotoxin	: Less than 1.0 EU/ μ g as determined by the LAL method
Formulation	: PBS (pH7.0~8.0) without preservative or carrier proteins.
Stability	: Stable for up to 12 months at -70 °C. Stable for a month at 4 °C.
Sterility	: Sterilized through a 0.2 μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



Manufacturer : **JW CreaGene Inc.**
 FL2, Jungang induspia V, 138-6, Sangdaewon-dong, Jungwon-gu, Seongnam-si,
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