

Product datasheet

Recombinant human IL-21 protein (Animal Free) ab217423

Description

Product name	Recombinant human IL-21 protein (Animal Free)	
Biological activity	Determined by its ability to stimulate the proliferation of human ANBL-6 cells. The expected ED ₅₀ is ≤ 0.5 ng/mL, corresponding to a specific activity of ≥ 2 x10 ⁶ units/mg.	
Purity	> 98 % SDS-PAGE. Assessed also by HPLC.	
Expression system	Escherichia coli	
Accession	Q9HBE4-1	
Protein length	Full length protein	
Animal free	Yes	
Nature	Recombinant	
Species	Human	
Sequence	MQDRHMIRMRLQLIDVDQLK NYVNDLVPEF LPAPEDVETN CEWSAFSCFQ KAQLKSANTG NNERIINVSI KKLKRKPPST NAGRRQKHRL TCPSCDSYEK KPPKEFLERF KSLQKMIHQ HLSSRTHGSE DS	
Predicted molecular weight	15 kDa	
Amino acids	24 to 155	
Additional sequence information	Mature full length without signal peptide.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab217423** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	HPLC
	Functional Studies
Form	Lyophilised

Preparation and Storage

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Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Lyophilised from a sterile filtered solution. Centrifuge the vial prior to opening. Reconstitute in Water to a concentration of 0.1 - 1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20C to -80C

General Info

Function	Cytokine with immunoregulatory activity. May promote the transition between innate and adaptive immunity. Induces the production of IgG(1) and IgG(3) in B-cells (By similarity). May play a role in proliferation and maturation of natural killer (NK) cells in synergy with IL15. May regulate proliferation of mature B- and T-cells in response to activating stimuli. In synergy with IL15 and IL18 stimulates interferon gamma production in T-cells and NK cells. During T-cell mediated immune response may inhibit dendritic cells (DC) activation and maturation.
Tissue specificity	Expressed in activated CD4-positive T-cells but not in CD8-positive T-cells, B-cells, or monocytes.
Sequence similarities	Belongs to the IL-15/IL-21 family.
Cellular localization	Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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