ANTIBODIES ONLINE

Datasheet for ABIN6700077 IL-21 Protein

2 Images



Overview

Quantity:	100 µg
Target:	IL-21 (IL21)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)
Product Details	

Purpose:	Human Interleukin-21 Recombinant Protein
Purification:	Interleukin-21 purity was determined to be greater than 95% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically \leq 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent stimulation of B9 cells and is typically less than 50 ng/mL.

Target Details

Target:	IL-21 (IL21)
Alternative Name:	IL21 (IL21 Products)
Background:	Synonyms: Za11
	Background: Interleukin-21 (IL-21) is a member of the common gamma-chain family of

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6700077 | 02/14/2025 | Copyright antibodies-online. All rights reserved.

	cytokines (includes IL-2, IL-4, IL-7, IL-9, IL-13, and IL-15) and is expressed by activated CD4+ T cells. IL-21 has a private receptor known as IL-21R, which is expressed on T, B, and NK cells. Within the B cell lineage, IL-21 regulates IgG1 production and cooperates with IL-4 for the production of multiple Ab classes in vivo. Initial studies have demonstrated that IL-21 has pleiotropic effects on the proliferation, differentiation, and effector functions of B, T, natural killer, and dendritic cells. Recombinant human IL-21 is a non-glycosylated protein, containing 133 amino acids, with a total molecular weight of 15.5 kDa.
UniProt:	Q9HBE4
Pathways:	JAK-STAT Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response
Application Details	
Application Notes:	Other: User Optimized Application_Note: Interleukin-21 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Interleukin-21 in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

Handling

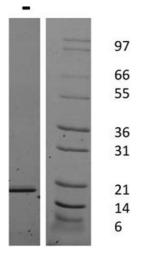
Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Buffer:	Buffer: 0.01 M Sodium Phosphate, pH 7.5 Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN6700077 | 02/14/2025 | Copyright antibodies-online. All rights reserved. opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Expiry Date:

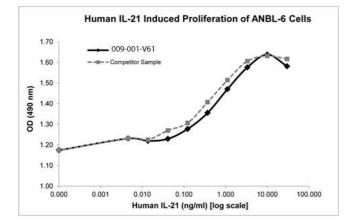
6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Interleukin-21 Recombinant Protein SDS-PAGE of Human Interleukin-21 Recombinant Protein. Lane 1: 1 μ g Human IL-20 in non-reducing conditions . Lane 2: Molecular weight marker. Human IL-21 has a predicted MW of 15 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Human Interleukin-21 Recombinant Protein Bioactivity of Human Interleukin-21 Recombinant Protein. Serial dilutions of Human IL-21 (starting at 30 ng/mL) were added to ANBL-6 cells. After 84 hours, cell proliferation was measured and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human IL-21 is between 0.48-0.73 ng/mL.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN6700077 | 02/14/2025 | Copyright antibodies-online. All rights reserved.