antibodies.com

Datasheet for ABIN1096936 IL-31 Protein (AA 24-164)



Overview

0000000	
Quantity:	50 µg
Target:	IL-31 (IL31)
Protein Characteristics:	AA 24-164
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)
Product Details	
Purpose:	Recombinant Human Interleukin-31/IL-31
Sequence:	SHTLPVRLLR PSDDVQKIVE ELQSLSKMLL KDVEEEKGVL VSQNYTLPCL SPDAQPPNNI HSPAIRAYLK TIRQLDNKSV IDEIIEHLDK LIFQDAPETN ISVPTDTHEC KRFILTISQQ FSECMDLALK SLTSGAQQAT T
Characteristics:	Recombinant Human Interleukin-31/IL-31 is produced with our E. coli expression system. The target protein is expressed with sequence (Ser24-Thr164) of Human IL-31.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

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 ABIN1096936 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Target Details	
Target:	IL-31 (IL31)
Alternative Name:	il-31 (IL31 Products)
Background:	Human Interleukin 31 (IL-31) is a cytokine containing a four-helix bundle structure. It shares
	several structural and functional characteristics with IL-6, Oncostatin M, LIF, and Cardiotrophin-
	1. Human IL-31 cDNA encodes a 164 amino acid precursor that contains a 23 amino acid signal
	peptide and a 141 amino acid mature protein. Human and mouse IL-31 share 24% sequence
	identity in the mature region. IL-31 is mainly associated with activated T cells and is
	preferentially expressed by type 2 helper T cells (Th2). IL-31 signals via a heterodimeric
	receptor complex composed of a gp130 related molecule termed IL-31RA (also GPL and
	GLMR) and an Oncostatin M receptor (OSM Rbeta). The IL-31 receptor is constitutively
	expressed by keratinocytes and upregulated by IFNgamma on monocytes. GPL/OSMR
	signaling is a strong activator of STAT3 and STAT5, and can also activate STAT1, Jak1, and
	Jak2 signaling pathways. IL-31 regulated immune responses have been implicated in skin
	physiology and inflammatory skin diseases. Studies have shown that IL31 induces severe
	pruritis (itching) and dermatitis in transgenic mice.
	Alternative Names: Interleukin-31, IL-31, IL31
Molecular Weight:	15.8 kDa
UniProt:	Q6EBC2
Application Details	
Comment:	Biological activity: ED50 is 5 ng/mL as determined by inducing STAT3 activation in U87 MG
	human glioblastoma/astrocytoma cells.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 μ g/mL.
	Dissolve the lyophilized protein in ddH2O.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Buffer:

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 ABIN1096936 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Handling		
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.	
	Reconstituted protein solution can be stored at 4-7°C for 2-7 days.	
	Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Expiry Date:	3 months	

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 ABIN1096936 | 09/12/2023 | Copyright antibodies-online. All rights reserved.