

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

IL-31Ra, Fc Fusion (IgG1), Avi-Tag Recombinant

Catalog: 102515 Lot: 250116

Product Information

Description:	Recombinant human IL-31Ra (Interleukin 31 receptor subunit alpha), encompassing
	amino acids 20-519, containing the extracellular portion of the receptor. This construct
	contains at the C-terminus the Fc domain of a human IgG1, followed by an Avi-Tag™.
	This protein was affinity purified.
Background:	IL-31 (interleukin 31) is a four-helix bundle proinflammatory cytokine preferentially
	produced by T helper type 2 (T_H2) cells. IL-31 regulates cell differentiation, cell
	proliferation, and immune responses, serving as a neuroimmune link between $T_H 2$ cells
	and sensory neurons in generating a T cell-mediated inflammatory itch. The IL-31
	receptor complex, composed of IL-31RA and OSMR (human oncostatin M receptor
	beta), is expressed by various epithelial and immune cells as well as dorsal root ganglia
	sensory neurons. IL-31 interacts with the IL-31 receptor complex, activating Janus
	kinases JAK1 and JAK2. This activation leads to the phosphorylation of signal transducer
	and activator of transcription (STAT) molecules, mainly STAT3, which upregulate the
	genes responsible for the IL-31 induced itch sensation. Often referred to as the itchy
	cytokine, increased expression of IL-31 or its receptor IL-31RA is correlated with
	alopecia, skin lesions, airway hypersensitivity, and particularly pruritic disorders such
	as atopic dermatitis. IL-31 and other T_{H2} related cytokines (including IL-4, IL-13 and TSLP
	(thymic stromal lymphopoietin) play an important role in the pathogenesis of a variety
	of inflammatory and allergic diseases and have become popular for therapeutic
	development. The IL-31RA targeting antibody Nemolizumab has been FDA-approved for the treatment of atopic dermatitis.
Species:	Human
Construct:	IL-31Ra (20-519-Fc (lgG1)-Avi)
Concentration:	0.98 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, 110 mM NaCl, 2.2 mM KCl, pH 7.4, and 20% glycerol.
MW:	86 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Genbank Accession:	Q8NI17-1
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before
	opening. Aliquot into small volumes and flash freeze for long term storage. Avoid
	multiple freeze/thaw cycles.
Assay Conditions:	A 96-well plate was coated with IL-31, His-Avi-Tag Recombinant (100 ng/well in PBS) at
	4°C overnight. The plate was washed three times with PBST, and 200 μ l of Blocking
	Buffer 2 was added for 2 hours at Room Temperature (RT). After three washes with
	PBST, a 1:2 serial dilution of IL-31Ra protein prepared in PP-02 Assay Buffer (BPS
	Bioscience #82620), was added and the plate was incubated at RT for 1 hour. The plate
	was washed three times and incubated with Anti-human Fc-HRP conjugate diluted
	1:1000 in Blocking Buffer 2 for 1 hour at RT. After three washes, 100 μ l of the ELISA ECL Substrate (BPS Bioscience #79670) was added to each well and chemiluminescence was
	measured.
Applications:	Useful for binding assays.
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Quality Control Data

