



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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**Datasheet for 009-001-V49-0100****rHuman IL-11 Protein****Overview**

<b>Description:</b>	Human Interleukin-11 Recombinant Protein - 009-001-V49-0100
<b>Item No.:</b>	009-001-V49-0100
<b>Size:</b>	100 µg
<b>Applications:</b>	SDS-PAGE, Cellular Assay
<b>Origin:</b>	Human
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	Interleukin 11 (IL-11) is a pleotropic cytokine closely related to IL-6 in function, but is overall one of the lesser characterized interleukins. In hematopoietic cell populations, IL-11 is thought to induce megakaryocyte differentiation. In non-hematopoietic populations, IL-11 is thought to be able to stimulate hepatic acute-phase proteins. Human IL-11 can stimulate murine cells. Recombinant human IL-11 is a non-glycosylated protein, containing 179 amino acids, with a molecular weight of 19.3 kDa.
<b>Synonyms:</b>	AGIF (Adipogenesis Inhibitory Factor), Oprelvekin
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	IL11
<b>Purity/Specificity:</b>	Interleukin-11 purity was determined to be greater than 95% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P20809</a></li></ul>

## Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Suggested Applications:</b>	Cellular Assay (Based on references)
<b>Application Note:</b>	Interleukin-11 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Interleukin-11 in immunological assays.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the dose-dependent proliferation of T11 or TF-1 cells is typically less than 2.5 ng/mL or 10 ng/mL or $4 \times 10^5$ units/mg or $1 \times 10^5$ units/mg.

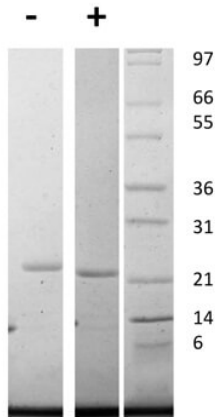
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Buffer:</b>	0.1% Trifluoroacetic acid
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	100 $\mu$ L
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

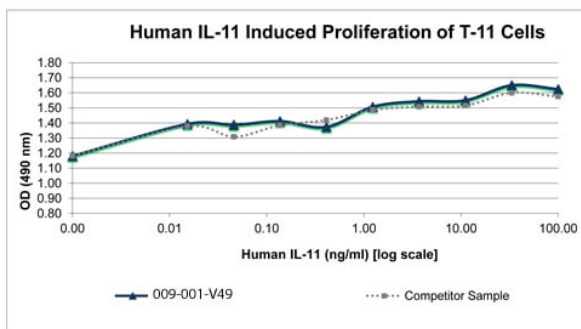
## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	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 opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Images


**SDS-PAGE**

SDS-PAGE of Human Interleukin-11 Recombinant Protein.  
 Lane 1: 1 µg Human IL-11 in non-reducing conditions (-).  
 Lane 2: 1 µg Human IL-11 in reducing conditions (+). Lane 3:  
 Molecular weight marker. Human IL-11 has a predicted MW  
 of 19 kDa.


**SDS-PAGE**

Bioactivity of Human Interleukin-11 Recombinant Protein.  
 Serial dilutions of Human IL-11 (starting at 100 ng/mL) were  
 added to T-11 cells growing the presence of 2 ng/mL IL-6.  
 After 91 hours, cell proliferation was measured and the  
 linear portion of the curve was used to calculate the  
 ED50. The ED50 of Human IL-11 is between 0.35-0.52 ng/mL.  
 This value is comparable to the typically expected to be less  
 than 2 ng/mL.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.