



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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**Datasheet for 010-001-B93-0100****rMouse IL-4 Protein****Overview**

<b>Description:</b>	Mouse Interleukin-4 Recombinant Protein - 010-001-B93-0100
<b>Item No.:</b>	010-001-B93-0100
<b>Size:</b>	100 µg
<b>Applications:</b>	Cellular Assay
<b>Origin:</b>	Mouse
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	Interleukin-4 (IL-4) is an immuno-modulatory cytokine, produced primarily by a subgroup of helper T cells, known as Th2. IL-4 is known to induce naïve helper T cells to differentiate to Th2 cells, which subsequently produce more IL-4. Th2 cells regulate a wide variety of other immune cells including, B cells, where it has the ability to promote IgG to IgE isotype switching. Recombinant mouse IL-4 is a non-glycosylated protein, containing 121 amino acids, with a molecular weight of 13.5 kDa.
<b>Synonyms:</b>	B cell Stimulating Factor 1 (BSF-1), BCDF, BCGF, B-cell IgG differentiation factor, B-cell growth factor 1, IGG1 induction factor, Lymphocyte stimulatory factor 1
<b>Species of Origin:</b>	Mouse
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	Il4
<b>Purity/Specificity:</b>	Interleukin-4 purity was determined to be greater than 95% as determined by HplC and by reducing and non-reducing SDS-pAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P07750</a></li></ul>

## Application Details

<b>Suggested Applications:</b>	Cellular Assay (Based on references)
<b>Application Note:</b>	Interleukin-4 Recombinant Protein has been tested by biological activity and is suitable as a control for polyclonal or monoclonal anti-Interleukin-4 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 dose-dependent induction of HT-2 cell proliferation and is typically less than 2 ng/mL.

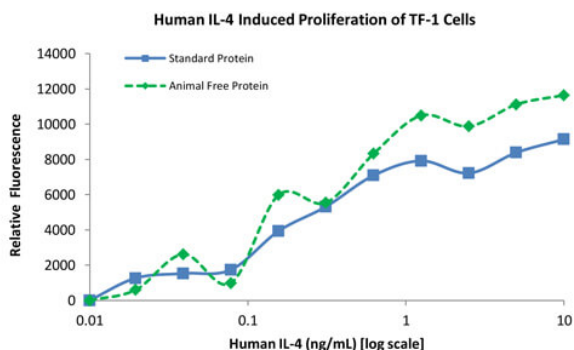
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	1.0mg/ml
<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

Bioactivity of Mouse Interleukin-4 Recombinant Protein. MC-9 cells were cultured with 0 to 2 ng/mL Mouse IL-4. Cell proliferation was measured and the linear portion of the curve was used to calculate the ED50. The ED50 of Mouse IL-4 is 0.016-0.046 ng/mL. This value is comparable to expected range of less than 0.2 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.