

## Interleukin-10 Murine E. coli

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> E. coli	RBG20010002	(2 µg)
<b>Species:</b> Murine	RBG20010010	(10 µg)
<b>Other names:</b> IL-10, Cytokine synthesis inhibitory factor, B cell derived T cell growth factor, Mast cell growth factor III	RBG20010100	(100 µg)

### Description

IL-10 is an immunosuppressive cytokine produced by a variety of mammalian cell types including macrophages, monocytes, T cells, B cells and keratinocytes. IL-10 inhibits the expression of proinflammatory cytokines such as IL-1 and TNF-alpha. Like IL-4, IL-10 enhances humoral immune responses and attenuates cell-mediated immune reactions. Human IL-10 is active on murine cells, but murine IL-10 is inactive on human cells. Recombinant Murine IL-10 is an 18.7 kDa protein of 161 amino acid residues.

### Introduction to the Molecule

IL-10 is an immunoregulatory protein produced by a number of cell lineages, including TH2 cells, B-cells and activated monocytes. IL-10 is an important factor in understanding autoimmunity and as a target molecule in the development of anti-rejection therapies.

### Research topic

Animal studies, Cytokines and chemokines and related molecules

### Amino Acid Sequence

MSRGQYSRED NNCTHFPVGG SHMLLELRTA FSQVKTFFQT KDQLDNILLT DSLMQDFKGY LGCQALSEMI QFYLVEVMPQ  
AEKHGPEIKE HLNSLGQKLK TLRMLRRCH RFLPCENKSK AVEQVKSDFN KLEDQGVYKA MNEFDIFINC IEAYMMIKMK S

### Source

E. coli

### Purity

≥ 98% by SDS-PAGE gel and HPLC analyses.

### Biological Activity

Murine IL-10 is fully biologically active as measured by the dose-dependent co-stimulation (with murine IL-4) of MC/9 cells. The expected ED<sub>50</sub> is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 10<sup>5</sup> units/mg.

### Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### Formulation

Sterile filtered through a 0.2 micron filter. Lyophilized from 5 mM Sodium Phosphate, pH 8.0

### Storage, Stability/Shelf Life

-20°C

<b>HEADQUARTERS:</b>				
BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: info@biovendor.com sales@biovendor.com Web: www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail: infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail: infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail: infoUSA@biovendor.com