

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Rat Interleukin-10 (rRtIL-10)

Catalog Number: PR3011

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

Description

Interleukin-10 also known as cytokine synthesis inhibitory factor (CSIF), is coded by IL10 gene on chromosome 13 in rat. the charter member of the IL 10 family of α helical cytokines that also includes IL19, IL20, IL22, and IL24 (1, 2). IL10 is secreted by many activated hematopoietic cell types as well as hepatic stellate cells, keratinocytes. IL-10 inhibits the expression of proinflammatory cytokines such as IL-1 and TNF α . Like IL-4, IL-10 enhances humoral immune responses and attenuates cell-mediated immune reactions. Human IL-10 active on murine cells, but murine IL-10 is inactive on human cells.

Molecular Weight:

Approximately 18.6 kDa, a single non-glycosylated polypeptide chain containing 160 amino acid residues.

Purity:

>97% by SDS-PAGE and HPLC analyses.

Biological Activity:

Measured in a cell proliferation assay using MC/92 mouse mast cells.

The ED50 for this effect is typically 2-12ng/mL.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

AA Sequence:

S K G H S I K G D N N C T H F P V S Q T H M L R E L R
A A F S Q V K T F F Q K K D Q L D N I V L T D S L L Q
D F K G Y L G C Q A L S E M I K F Y L V E V M P Q A E
N H G P E I K E H L N S L G E K L K T L W I Q L R R C
H R F L P C E N K S K A V E Q V K N D F N K L Q D K
G V Y K A M N E F D I F I N C I E A Y V T L K M K N

Endotoxin:

Less than 1EU/µg of rRtIL-10 as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

Bioworld Technology, Inc.

1660 South Highway 100, Suite 500 St. Louis Park, MN

55416, USA.

Tel: 6123263284

Email: info@bioworld.com

Fax: 6122933841

Bioworld technology, co, Ltd.

No 9, weidi road Qixia District Nanjing, 210046, P, R.China.

Tel: 0086-025-86371664

Email: info@biogot.com

Fax: 0086-025-86213570