

## **Product Datasheet**

## Recombinant Murine Interleukin-10 (rMulL-10) (orb1495011)

Catalog Number orb1495011

**Category** Proteins

**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 active on murine cells, but murine IL-

10 is inactive on human cells.

**Form/Appearance** Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

**Buffer/Preservatives** Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

**Purity** >97% by SDS-PAGE and HPLC analyses.

**Purification** >97% by SDS-PAGE and HPLC analyses.

Protein Sequence MSRGQYSRED NNCTHFPVGQ SHMLLELRTA FSQVKTFFQT KDQLDNILLT

DSLMQDFKGY LGCQALSEMI QFYLVEVMPQ AEKHGPEIKE HLNSLGQKLK TLRMRLRRCH RFLPCENKSK AVEQVKSDFN KLEDQGVYKA MNEFDIFINC

**IEAYMMIKMK S** 

MW Approximately 18.7 kDa, a single non-glycosylated polypeptide chain containing

161 amino acids

**Application notes**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.

**Endotoxins** Less than 1EU/mg of rMulL-10 as determined by LAL method.

**Biorbyt Ltd.** 

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**Source** Escherichia coli.

**Biological Activity** Fully biologically active when compared to standard. The ED50 as determined by

the dose-dependent co-stimulation (with IL-4) of the proliferation of murine MC/9

cells was found to be 5 x 105 units/mg.

**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.

**Note** For research use only

**Expiration Date** 6 months from date of receipt.