



Recombinant Murine Interleukin 10 **rmIL-10**

Catalog number: HZ-6516

Lot: CHI-121407

Specifications and Use

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| Source | ● <i>Escherichia coli</i> . |
| Molecular Mass | ● 18.7kDa |
| Purity | ● Greater than 95% by SDS-PAGE analyses. |
| Biological Activity | ● Murine IL-10 is fully biologically active as measured by the dose-dependent co-stimulation (with IL-4) of the proliferation of murine MC/9 cells. The ED50 was found to be < 2ng/ml, corresponding to a specific activity of > 5 x 10 ⁵ units/mg. |
| Endotoxin Level | ● Less than 1EU/μg. |
| Formulation | ● Sterile filtered lyophilized (freeze-dried) powder. |
| Solubility | ● It is recommended to reconstitute the lyophilized rmIL-10 in sterile ddH ₂ O containing at least 0.1% human serum albumin or bovine serum albumin to prepare a stock solution of no less than 1mg/ml of the cytokine. |
| Stability | ● The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.
● Reconstituted human rmIL-10 should be stored in working aliquots at -20°C. |
| Usage | ● FOR RESEARCH USE ONLY. NOT FOR HUMAN USE. |

Murine Interleukin 10

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 TNFα. 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. Recombinant murine IL-10 is an 18.7kDa protein of 161 amino acid residues.

Protein Sequence:

MSRGQYSREDNNCTHFPVGGQSHMLLELRTAFSQVKTFFQTKDQLDNILLTDSLMLQDFKGYLGCQAL
SEMIQFYLVEMPQAEEKHGPEIKEHLNSLGQKLTLMRLRRCHRFLPCENKSKAVEQVKSDFNLED
QGVYKAMNEFDIFINCIEAYMMIKMKS