

# Growth Factor Data Sheet

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GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Interleukin-10 (IL10) is an immunosuppressive cytokine produced by a variety of mammalian cell types including macrophages, monocytes, T-cells, B-cells and keratinocytes. IL10 inhibits the expression of pro-inflammatory cytokines such as IL1 and TNF $\alpha$ . Like IL4, IL10 enhances humoral immune responses and attenuates cell-mediated immune reactions. Human IL10 is active on murine cells, but murine IL10 is inactive on human cells.

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| <b>Catalog Number</b>      | <b>1310-10</b>   |
| <b>Product Name</b>        | <b>IL10, Murine</b><br>Recombinant Murine Interleukin-10<br>IL10<br>Interleukin 10<br>Cytokine Synthesis Inhibitory Factor (CSIF)  |
| <b>Source</b>              | <i>Escherichia coli</i>  |
| <b>MW</b>                  | ~18.7 kDa (161 amino acids)  |
| <b>Sequence</b>            | SRGQYSREDN NCTHFPVGQS HMLLELR TAF SQVKTFFQTK DQLDNILLTD SLMQDFKGYL<br>GCQALSEMIQ FYLVEVMPQA EKHGPEIKEH LNSLGEK LKT LRMRLRRCHR FLP CENKSKA<br>VEQVK SDFNK LQDQGVYKAM NEFDIFINCI EAYMMIKMKS  |
| <b>Accession Number</b>    | <a href="#">P18893</a>   |
| <b>Purity</b>              | >97% by SDS-PAGE and HPLC analyses   |
| <b>Biological Activity</b> | Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using murine MC/9-2 cells is less than 1 ng/ml, corresponding to a specific activity of $>1.0 \times 10^6$ IU/mg.  |
| <b>Formulation</b>         | Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.  |
| <b>Storage/Handling</b>    | This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.  |
| <b>Reconstitution</b>      | The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10 mM HCl to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum. |