

# Recombinant Human IL-10

Catalog Number: **HZ-1145** **HEK293 expressed** **Endotoxin-free** **Animal-component free**

## Technical Specifications

<b>Species:</b> human	<b>Purity:</b> >95%	<b>Formulation:</b> 10mM Tris-HCl pH 7.4 + 150mM NaCl, See Certificate of Analysis for details
<b>Expression:</b> HEK293	<b>Endotoxin:</b> <1 EU/μg	<b>Gene ID:</b> 3586
<b>Activity:</b> 0.18-2.0 ng/mL EC50	<b>Molecular Mass:</b> 17 kDa, non-disulfide bonded homodimer, glycosylated	

## Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

## Stability and Storage

Lyophilized proteins are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

## Background

IL-10 is a non-covalent homodimeric glycoprotein with an apparent molecular mass of 17 kDa. IL-10 is produced by a variety of mammalian cell types including T cells, B cells, macrophages, and keratinocytes monocytes. It is an anti-inflammatory cytokine with multiple roles in inflammation and immunoregulation (PMID: 19161426; 9162098).

## Synonyms

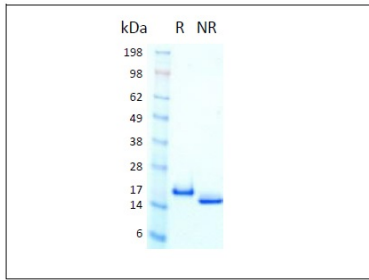
CSIF, IL 10, IL10, IL10A, interleukin 10, TGIF

For technical support and original validation data for this product please contact:

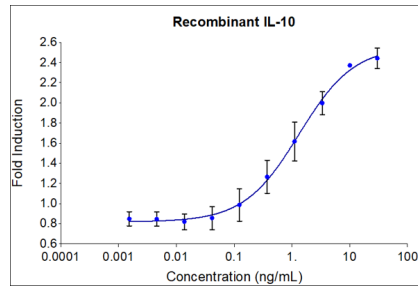
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## Selected Validation Data



The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.



Recombinant human IL-10 (HZ-1145) induces dose-dependent proliferation of the MC/9 (mouse mast cell) cell line. Cell number was quantitatively assessed by PrestoBlue® cell viability reagent. MC/9 cells were treated with increasing concentration of recombinant IL-10 for 48 hours. The EC50 was determined using a 4-parameter non-linear regression model. The EC50 range is 0.18-2.0 ng/mL.