

**Catalog No.: RP00093** **Recombinant**

Species	Gene ID	Swiss Prot
Human	3586	P22301

## C-His

CSIF; GVHDS; IL-10; IL10A;  
TGIF:IL10:GVHDS:IL-10:IL10A:TGIF

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 90 % as determined by SDS-PAGE

Calculated MW	Observed MW
19.49 kDa	18 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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The protein encoded by this gene is a cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract. Mutations in this gene are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.

Recombinant Human IL-10 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ser19-Asn178) of human IL10/Interleukin-10 (Accession #NP\_000563.1) fused with a 6xHis tag at the C-terminus.

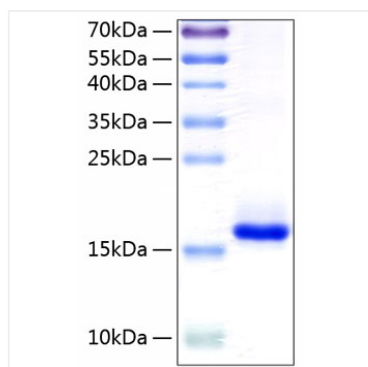
1. Measured in a cell proliferation assay using MC/9-2 mouse mast cells. The ED<sub>50</sub> for this effect is 0.13-0.52 ng/mL, corresponding to a specific activity of 1.92×10<sup>6</sup>-7.69×10<sup>6</sup> units/mg. 2. Measured by its binding ability in a functional ELISA. Immobilized Human IL10 (Catalog: RP00093) at 2 µg/mL (100 µL/well) can bind Human IL10RA (Catalog: RP01648) with a linear range of 0.1-2.9 ng/mL.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

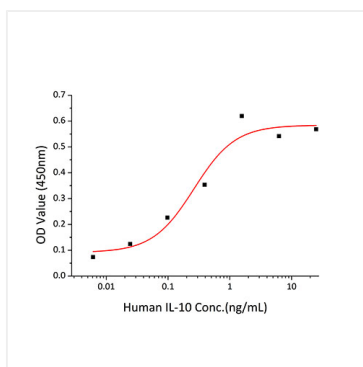
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

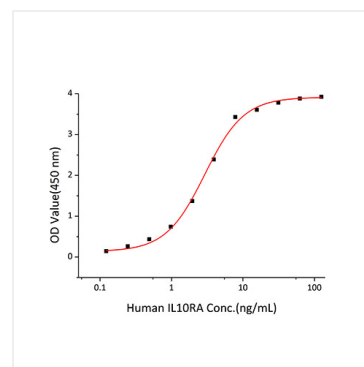
## Validation Data



Recombinant Human IL-10 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human IL-10 promote cell proliferation of MC/9 2 mouse mast cells. The  $ED_{50}$  for this effect is 0.13-0.52 ng/mL, corresponding to a specific activity of  $1.92 \times 10^6$ - $7.69 \times 10^6$  units/mg.



Immobilized Human IL10 (Catalog: RP00093) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Human IL10RA (Catalog: RP01648) with a linear range of 0.1-2.9 ng/mL.