

## IL-10 Protein, Human, Recombinant V2

### General Information

Synonyms:	GVHDS;IL10A;interleukin 10;Interleukin-10;TGIF;IL-10;CSIF
Protein Construction:	Ser19-Asn178
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P22301
Molecular Weight:	18.8 kDa (Predicted and reducing conditions)

### QC Testing

Biological Activity:	Measured by its ability to inhibit IL-6 secretion by RAW264.7 cells. The ED50 for this effect is 0.1 -1.0 ng/mL Immobilized Human IL-10, No Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Human IL-10 R alpha, His Tag with the EC50 of 61.9 ng/mL determined by ELISA. Human IL-10 R alpha, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-10, No Tag with an affinity constant of 0.255 nM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Interleukin 10 (IL10) is a key anti-inflammatory cytokine that can inhibit proinflammatory responses of both innate

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and adaptive immune cells. An association between IL10 and intestinal mucosal homeostasis became clear with the discovery that IL10 and IL10 receptor (IL10R)-deficient mice develop spontaneous intestinal inflammation. Similarly, patients with deleterious mutations in IL10, IL10RA, or IL10RB present with severe enterocolitis within the first months of life.

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