

## HumanKine® recombinant human IL-10 protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

### Product Description

Animal-free Recombinant Human IL-10 is expressed in human 293 cells as a non-covalent homodimeric glycoprotein with an apparent molecular mass of 17 kDa. This cytokine is produced in a serum-free, chemically defined media. IL-10 is produced by a variety of mammalian cell types which includes T cells, B cells, macrophages, and keratinocytes monocytes. It is an anti-inflammatory cytokine with multiple, pleiotropic effects in inflammation and immunoregulation. Glycosylation contributes to stability in cell growth media and other applications. The cytokine is greater than 95% pure.

#### Alternative Names

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

#### Source

Human Embryonic Kidney cells (HEK293). HEK293-derived IL-10 protein

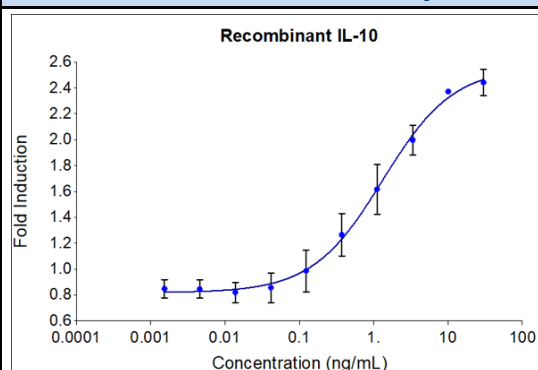
#### Species Reactivity

human,mouse

### Specifications

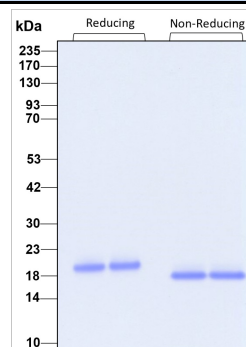
Test	Method	Specification
Activity (EC50)	Dose-dependent proliferation of the MC/9 (mouse mast cell) cell line	0.18-2.0 ng/mL
Molecular Mass	SDS-PAGE	19 kDa reduced, 17 kDa non-reduced, non-disulfide bonded homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

### Activity Data



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

### SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	10mM Tris-HCl pH 7.4 + 150mM NaCl, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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**Proteintech Group, Inc.**  
5500 Pearl Street, Suite 400 Rosemont, IL 60612  
t: 1-888-478-4522; f: 1-312-455-8408  
Email: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)