

HumanKine® recombinant human IL-6 protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human IL-6 is produced in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 21 to 29 kDa. This broad molecular mass is attributable to glycosylation, which is absent when this cytokine is expressed in E. coli. Glycosylation contributes to stability in cell growth media and other applications. IL-6 is a pleiotropic cytokine that plays an important role in host defense by regulating immune and inflammatory responses. Produced by T cells, monocytes, fibroblasts, endothelial cells, and keratinocytes, IL-6 has diverse biological functions.

Alternative Names B cell stimulatory factor 2, BSF 2, BSF2, CDF, CTL differentiation factor, HGF, HSF, Hybridoma growth factor, IFN beta 2, IFNB2, IL 6, IL6, IL-6, Interferon beta 2, Interleukin 6

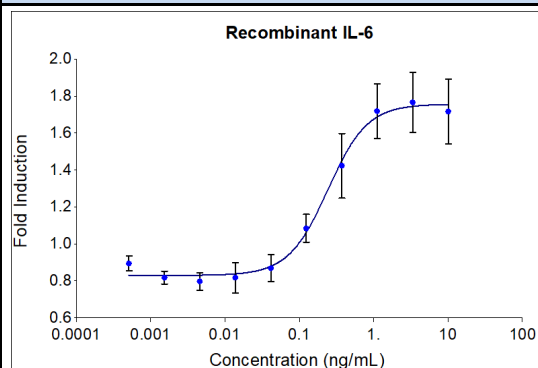
Source Human Embryonic Kidney cells (HEK293). HEK293-derived IL-6 protein

Species Reactivity human,mouse,monkey,rabbit,rat

Specifications

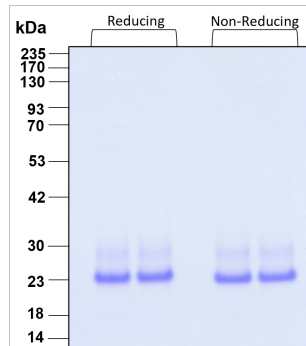
Test	Method	Specification
Activity (EC50)	Dose-dependent stimulation of the proliferation of 3G12B10 cells (mouse hybridoma cell line)	0.03-0.24 ng/mL in 3G12B10 cells.
Molecular Mass	SDS-PAGE	24 and 29 kDa reduced, 21 and 28 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human IL-6 (HZ-1019) stimulates dose-dependent proliferation of the 3G12B10 hybridoma cell line. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. 3G12B10 cells were treated with increasing concentrations of recombinant IL-6 for 96 hours. The EC50 range is 0.03-0.24 ng/mL.

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, 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 1x PBS 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