

## HumanKine® recombinant human IL-29 protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

### Product Description

Animal-free Recombinant Human IL-29 (IFN-lambda 1) is expressed in human 293 cells as a glycoprotein with an apparent molecular mass of 25 and 30 kDa. IL-29 has immunomodulatory activity and may function in antiviral immunity. This cytokine is produced in a serum-free, chemically defined media. Production in human 293 cells offers authentic human glycosylation which contributes to stability in cell growth media and other applications. The purity is greater than 95%.

**Alternative Names** Cytokine Zcyto21, IFN lambda 1, IFNL1, IFN-lambda 1, IL 29, IL29, IL-29, Interferon lambda 1, Interleukin 29, ZCYTO21

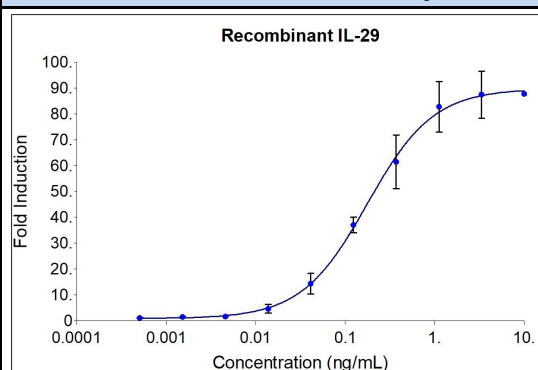
**Source** Human Embryonic Kidney cells (HEK293). HEK293-derived IL-29 protein

**Species Reactivity** human

### Specifications

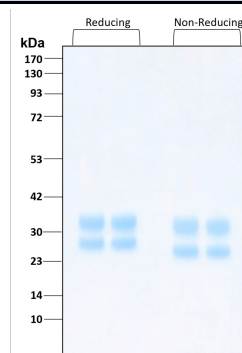
Test	Method	Specification
Activity (EC50)	Dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line.	0.12-0.6 ng/mL
Molecular Mass	SDS-PAGE	27 and 31 kDa reduced, 25 and 30 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

### Activity Data



Recombinant human IL-29 (HZ-1156) stimulates dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line. Alkaline phosphatase production was assessed using pNPP as a chromogenic substrate. The EC50 was determined using a 4-parameter non-linear regression model. The EC50 values range is 0.12-0.6 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.			

[www.ptglab.com](http://www.ptglab.com)

Document #: FR-QA118-101 Rev 0  
Data Sheet Version #: 1

**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)