


CA1073	<b>HumanKine™ IL-29</b>			
	<b>Prod. No. S2331-100UG</b>	<b>lot #: PR1XXXXXX XXXX</b>	Orders & Support	866 372-7442 support@primorigen.com
	<i>For Research Use Only Not intended for use in humans or animals</i>		Web	www.primorigen.com

<b>Pack Size</b>	100 µg
<b>Species</b>	Human
<b>Expression System</b>	HEK 293*
	Animal-derived product free
<b>Molecular Mass</b>	29-35 kDa monomer, glycosylated
<b>Activity</b>	Typically 0.5 to 5 ng/mL ED50
<b>Purity</b>	≥ 95%
<b>Endotoxin</b>	≤ 1 EU/µg

### Background:

Recombinant human IL-29 expressed in engineered human cells. IL-29 (IFN lambda 1) is a 29 and 35 kDa non-disulfide linked homodimeric glycoprotein and belongs to the type III interferon protein family. IL-29 has immunomodulatory activity and may function in antiviral immunity. The cytokine up-regulates MHC class I antigen expression and is the ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IL28RA. The ligand/receptor complex potentially signals through the Jak-STAT pathway.

*Note: Representative data are shown below (not Lot-specific).*

### Formulation:

Lyophilized from a 0.2 micron filtered solution in PBS.

### Reconstitution:

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

### Storage and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

### Quality Control Testing

#### Assay:

The specific activity was determined by dose-dependent protection of the cytopathic effect on A549 cells (human lung adenocarcinoma epithelial cell line) that were challenged with encephalomyocarditis (EMC) virus.

#### Purity Confirmation:

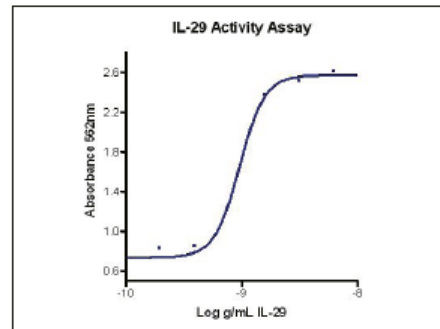
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

#### References:

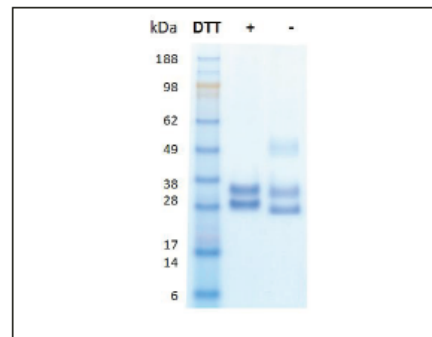
Sheppard, P., et al (2002) Nature Immunology 4, 63-68  
Meager, A., et al (2005) Cytokine 31, 109-118

*\*All HumanKine™ cytokines are expressed in HEK 293 cells.  
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## A. Activity Assay



## B. SDS-PAGE



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