


CA1071	HumanKine™ IL-28A			
	Prod. No. S2329-10UG	lot #: PR1XXXXXX XXXX	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

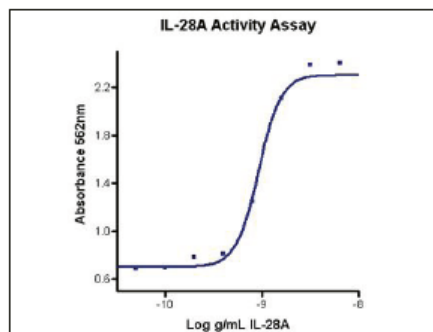
Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	24 kDa monomer, non-glycosylated
Activity	Typically 0.5 to 5 ng/mL ED50
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

Recombinant human IL-28A expressed in engineered human cells. IL-28A (IFN lambda 2) is a 24 kDa monomer and belongs to the type III interferon protein family. IL-28A has immunomodulatory activity and displays potent antiviral activity. 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 may signal through the Jak-STAT pathway.

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

A. Activity Assay



Formulation:

Lyophilized 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 cytopathic effect on A549 cells (human lung adenocarcinoma 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.

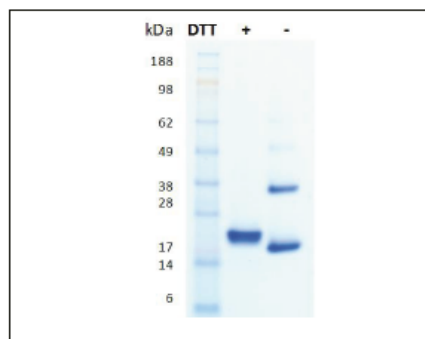
References:

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.
HumanKine™ is a trademark of HumanZyme Inc.*

B. SDS-PAGE



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