


CA1058	HumanKine™ IFN alpha 2A			
	Prod. No. S2316-10UG	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	16 kDa monomer, glycosylated
Activity	Typically 0.1 to 0.4 ng/mL
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

Recombinant human IFN alpha 2A expressed in engineered human cells. IFN-alpha is a 16 kDa glycosylated monomer and belongs to the type I interferon protein family. IFN alpha 2A is produced by many cell types in response to viral infection. IFN alpha has antiproliferative and antitumor activities, as well as induction of apoptosis and the inflammatory response. IFN alpha enhances the expression of MHC proteins by increasing the presentation of antigen peptides and activates cytotoxic T-cells.

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 the dose-dependent inhibition of proliferation of the human TF-1 cell line (human erythroleukemic indicator cell line).

Purity Confirmation:

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

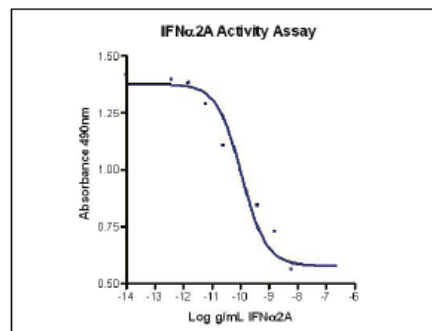
References:

Mire-Sluis, A. R., et al (1996) J Immunol Methods 195, 55-61

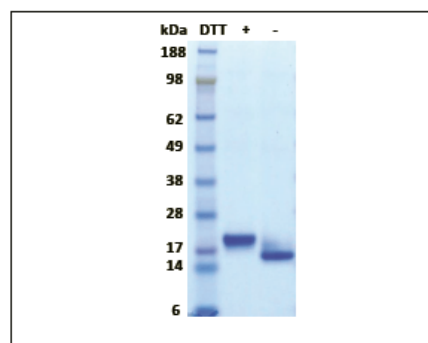
Bogdan, C., et al (2004) Immunol Rev 202, 33-48

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



B. SDS-PAGE



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