

HumanKine® recombinant human IFN alpha 2A protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

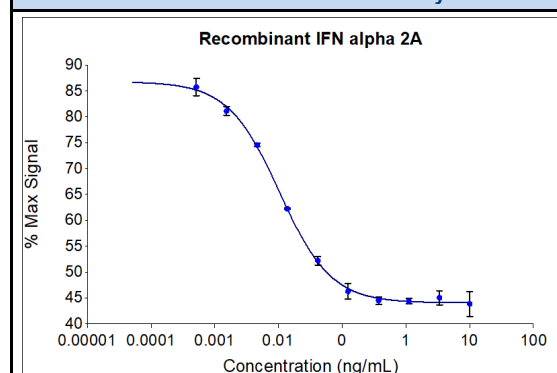
Animal-free Recombinant Human IFN alpha 2A is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 16 kDa. It is a type 1 interferon and is also known as leukocyte interferon. This cytokine is produced in a serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation which contributes to stability in cell growth media and other applications. The purity is greater than 95%.

Alternative Names	IFN alpha 2, IFN alpha 2A, IFNA, IFNA2, INFA2, Interferon alpha 2, Interferon alpha A, interferon, alpha 2, LeIF A
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IFN alpha 2A protein
Species Reactivity	human

Specifications

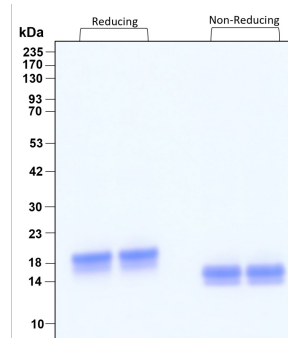
Test	Method	Specification
Activity	Dose-dependent cytotoxicity of the human TF-1 cell line (human erythroleukemic indicator cell line)	Typically ≤ 0.06 ng/mL
Molecular Mass	SDS-PAGE	18 to 22 kDa reduced, 14 to 19 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ μ g

Activity Data



Recombinant human IFN alpha 2A (HZ-1066) dose-dependently inhibits growth of the TF-1 cell line. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. TF-1 cells were treated with increasing concentrations of recombinant IFN alpha 2A for 72 hours. The EC50 was determined using a 4-parameter non-linear regression model.

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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