

HumanKine® recombinant human IFN beta protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human IFN beta (IFN beta 1/ IFN beta 1a), is a member of type I family of interferons. It binds to a heterodimeric receptor, known as the IFN α / β receptor (IFNAR) resulting in activation of a number of Jak/ STAT proteins. Activation of this signaling pathway results in activation of genes that inhibit viral infection and regulate MHC class I antigens. It is primarily produced by fibroblasts and monocytes. In addition to inhibiting viral infection, IFN beta is also involved in regulating and activating immune response against bacteria, parasite and tumor cells. Multiple sclerosis is characterized by a deficiency of IFN beta 1. An injectable form of IFN beta 1 is used for MS treatment.

Alternative Names Fibroblast interferon, IFB, IFF, IFN beta, IFNB, IFNB1, Interferon beta, interferon, beta 1, fibroblast

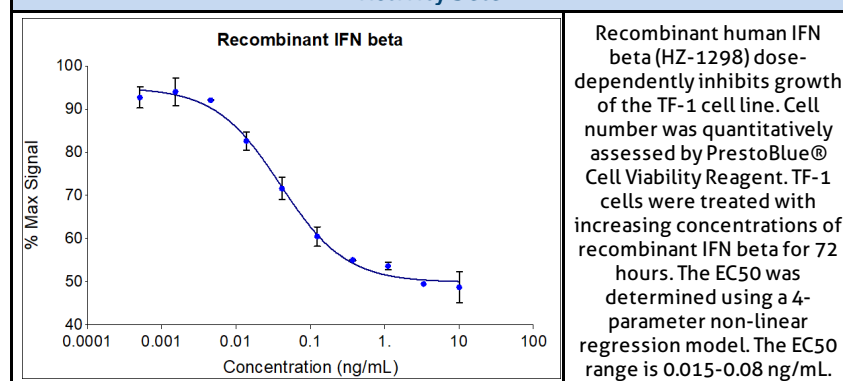
Source Human Embryonic Kidney cells (HEK293). HEK293-derived IFN beta protein

Species Reactivity human, mouse

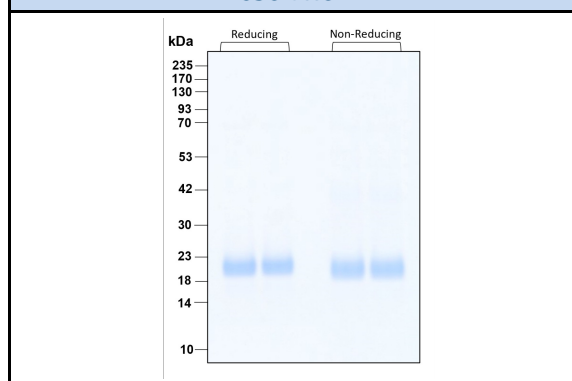
Specifications

Test	Method	Specification
Activity (EC50)	Dose dependent inhibition of proliferation of TF-1 cells (human erythroleukemic indicator cell line)	0.015-0.08 ng/mL
Molecular Mass	SDS-PAGE	21 to 24 kDa reduced, 20 to 23 and 38 to 42 non-reduced, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ μ g

Activity Data



SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	Sodium Acetate pH 4.8 + 150mM NaCl + CHAPS, 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 water. 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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