

IFN-beta Protein, Rhesus (HEK293, Fc)

Cat. No.:	HY-P73132
Synonyms:	Interferon beta; IFN-beta; IFNB1; IFB; IFNB
Species:	Rhesus Macaque
Source:	HEK293
Accession:	EHH24077.1 (M22-N187)
Gene ID:	/
Molecular Weight:	Approximately 46.4 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Interferon (IFN) constitutes a family of cytokines that naturally secrete immunoregulatory functions. They boost macrophages to destroy tumor cells, viruses and bacteria. There are two types of IFN: Type 1 includes IFN-α and β, and type 2 consists only of IFN-γ. IFN-beta and IFN-gamma have opposite effects, IFN-gamma promotes the inflammatory response, while IFN-beta is primarily anti-inflammatory. Exogenous IFN-beta reduces joint inflammation by inhibiting the RANKL-c-Fos signaling pathway. IFN-beta rescues neurodegeneration by regulating mitochondrial fission through STAT5, PGAM5, and Drp1 ^{[1][2][3]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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