

## IFN-beta Protein, Human (HEK293)

Cat. No.:	HY-P7024
Synonyms:	rHuIFN- $\beta$ ; IFNB
Species:	Human
Source:	HEK 293
Accession:	P01574 (M22-N187)
Gene ID:	3456
Molecular Weight:	Approximately 23 kDa

### PROPERTIES

AA Sequence	<pre> MSYNLLGFLQ   RSSNFQCQKL   LWQLNGRLEY   CLKDRMNFDI PEEIKQLQQF   QKEDAALTIY   EMLQNIFAIF   RQDSSSTGWN ETIVENLLAN   VYHQINHLKT   VLEEKLEKED   FTRGKLMSSL HLKRYYGRI L   HYLKAKEKEYSH   CAWTIVRVEI   LRNFYFINRL TGYLRN           </pre>
Biological Activity	The ED <sub>50</sub> is <0.1 ng/mL as measured by TF-1 cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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-beta is a cytokine with immunomodulatory properties, and has therapeutic potential for the treatment of ischemic stroke <sup>[1]</sup> . Interferon-beta (IFN- $\beta$ ) suppresses the production of IFN- $\gamma$ and induces IL-10, whereas the production of IL-4 is not altered <sup>[2]</sup> .
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### REFERENCES

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[1]. Kuo PC, et al. Interferon- $\beta$  Modulates Inflammatory Response in Cerebral Ischemia. J Am Heart Assoc. 2016 Jan 8;5(1).

[2]. Sega S, et al. IFN-beta1a and IFN-beta1b have different patterns of influence on cytokines. Clin Neurol Neurosurg. 2004 Jun;106(3):255-8.

[3]. Ivan Fan-Ngai Hung, et al. Triple Combination of Interferon beta-1b, Lopinavir-Ritonavir, and Ribavirin in the Treatment of Patients Admitted to Hospital With COVID-19: An Open-Label, Randomised, Phase 2 Trial. Lancet. 2020 May 30;395(10238):1695-1704.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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