

## Recombinant Human Interferon-alpha2b

Cat. No.:	HY-P7023
Synonyms:	rHuIFN- $\alpha$ 2b; IFNA; INFA2; IFN-a 2b
Species:	Human
Source:	E. coli
Accession:	P01563
Gene ID:	3440
Molecular Weight:	Approximately 19.2 kDa

### PROPERTIES

AA Sequence	CDLPQTHSLG    SRRTLMLLAQ    MRRISLFSCL    KDRHDFGFPQ E EFGNQFQKA    ETIPVLHEMI    QQIFNLFSTK    DSSAAWDETL LDKFYTELYQ    QLNDLEACVI    QGVGVTE TPL    MKEDSILAVR KYFQRITLYL    KEKKYSPCAW    EVVRAEIMRS    FSLSTNLQES LRSKE
Biological Activity	The ED <sub>50</sub> is <0.05 ng/mL as measured by TF-1 cells, corresponding to a specific activity of >2.0 × 10 <sup>7</sup> units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	Reconstitute the lyophilized recombinant Human Interferon-alpha2b (rHuIFN- $\alpha$ 2b) to 100 μg/mL using ddH <sub>2</sub> O.
Storage & Stability	Lyophilized recombinant Human Interferon-alpha2b (rHuIFN- $\alpha$ 2b) is stored at -20°C. After reconstitution, it is stable at 4°C for 2 weeks 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	Human Interferon- $\alpha$ is a cytokine belonging to the type I Interferons (IFNs), acts as a regulatory mediator of the immune response, and also shows antiviral, antitumor activity. IFN $\alpha$ are used in treatment of hepatitis B and C and in antitumor therapy <sup>[1]</sup> . Human Interferon- $\alpha$ 2 can also be used to treat hairy cell leukemia, chronic myelogenous leukemia, malignant melanoma, follicular lymphoma, condylomata acuminata, and AIDS-related Kaposi sarcoma <sup>[2]</sup> .
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## REFERENCES

- [1]. Gerasymenko IM, et al. MULTIPLEX PCR ASSAY FOR DETECTION OF HUMAN SOMATOTROPIN AND INTERFERON ALPHA2b GENES IN PLANT MATERIAL. Tsitol Genet. 2015 May-Jun;49(3):3-8.
- [2]. Chang CH, et al. A new method to produce monoPEGylated dimeric cytokines shown with human interferon- $\alpha$ 2b. Bioconjug Chem. 2009 Oct 21;20(10):1899-907.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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