

**Product:** **Recombinant Human Interferon-alpha 2b/ IFN $\alpha$  2b**  
**Cat #: 300-207P**  
Powder

Description	Interferon-alpha 2b (IFN $\alpha$ 2b) is a Type I interferon made by leukocytes during viral infection. It has anti-viral and non-proliferative activity induced by JAK1-STAT signaling. IFN-alphas are the most widely used type for therapeutic purposes. IFN $\alpha$ 2b is a variant of IFN $\alpha$ 2a that differs by one amino acid. Alternate names: Type I Interferon, Alpha 2
MW	Non-glycosylated protein, containing 166 amino acids, with a molecular weight of 19.4 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human IFN $\alpha$ 2b is lyophilized with no additives.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the ability induce antiviral activity.
Endotoxin Level	Measured by kinetic LAL analysis and is typically $\leq$ 1 EU/ $\mu$ g protein.
AA Sequence	MCDLPQTHSL GSRRTLMLLA QMRRISLFSC LKDRHDFGFP QEEFGNQFQK AETIPVLHEM IQQIFNLFST KDSSAAWDET LLDKFYTELY QQLNDLEACV IQGVGVTEP LMKEDSILAV RKYFQRITLY LKEKKYSPCA WEVVRAEIMR SFSLSTNLQE SLRSKE

Purity greater than 98% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**