

IFNA2

Recombinant Human Interferon-alpha 2b

Catalog No.	CRI004A	Quantity:	20 µg
	CRI004B		100 µg
	CRI004C		1 mg

Alternate Names: IFNA2b, IFNA, INFA2

Description: Interferon-alpha 2b (IFN-a2b) is a type I interferon made by leukocytes during viral infection. The JAK-STAT pathway mediates the antiviral and anti-cell proliferation activities of IFN-a2b. IFN-a proteins are widely used as standard treatments during antiviral and antineoplastic therapies. The IFN-a2b variant differs from IFN-a2a by one amino acid.

Gene ID: 3440

UniProt ID: P01563 (VAR_004012)

Source: *E. coli*

Molecular Weight: 19.4 kDa (166aa) monomer

Formulation: Lyophilized from a sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA).

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 0.1 EU/µg by kinetic LAL analysis

Biological Activity: ED₅₀ ≤ 0.005 ng/ml, determined by viral cytopathic effect (CPE) assay using EMC virus on A549 cells.

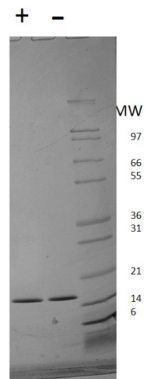
Specific Activity: ≥ 2.0 x 10⁸ U/mg

Amino Acid Sequence: MCDLPQTHSL GSRRTLMLLA QMRRISLFSC LKDRHDFGFP QEEFGNQFQK
AETIPVLHEM IQQIFNLFST KDSSAAWDET LLDKFYTELY QQLNDLEACV
IQGVGVTEPT LMKEDSILAV RKYFQRITLY LKEKKYSPCA WEVVRAEIMR
SFSLSTNLQE SLRSKE

Reconstitution: **Centrifuge vial prior to opening.** Add sterile water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.

Figure: 1 μg protein under (+) reducing and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue.



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