

BACKGROUND:

Interferon-alpha 2b (IFN-α2b) 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-α2b. IFN-α proteins are widely used as standard treatments during antiviral and antineoplastic therapies. The IFN-α2b variant differs from IFN-α2a by one amino acid.

Recombinant human Interferon-alpha 2b is a non-glycosylated protein monomer, containing 166 amino acids and having a molecular mass of 19.4 kDa.

Cat. No.:
RP1052

Alternate Names:
Type I Interferon, Alpha 2

AA Sequence:

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

TECHNICAL INFO

Source:
E. coli

Physical Appearance:
Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
0.1% Trifluoroacetic Acid (TFA)

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.

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 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
The activity is measured by viral CPE assay using EMC virus on A549 cells.

