



Human IFN-alpha 2a

Human Interferon-α 2a, recombinant

Synonyms: Leukocyte IFN, B cell IFN, Type I IFN, IFNA2, IFN-a 2a.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order#	Lot#	Expiry Date
20 µg	1471.950.020		
100 µg	1471.950.100		
1 mg	1471.950.199		

Please enquire for bulk quantities and other vial sizes.

Description

Recombinant Human Interferon alpha 2 a (hIFN alpha 2 a) is a single, non-glycosylated, protein consisting of 165 amino acids with a molecular mass of 19.2 kDa. The difference between IFNA2A and IFNA2B is in the amino acid present at position 23. IFN-alpha 2 a has a lysine at that position 23 while IFN-alpha 2 b has arginine. The IFNA2A gene was obtained from human leukocytes.

- **Biological Activity** $\geq 2.7 \times 10^8$ units/mg
- **Source** *E. coli*
- **Purity** $\geq 97\%$ (SDS-PAGE, RP-HPLC)
- **Endotoxin Level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** None*
- **Physical State** Sterile filtered, lyophilized

Biological Activity

The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 270,000,000 IU/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. **Do not vortex.**

Stability

Lyophilized IFN-alpha 2 a is stable at room temperature for up to 3 weeks, but best stored desiccated below -18°C. Upon reconstitution IFN alpha 2 a can be stored at 4°C for 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1 % HSA, order number: 2835.955.xyz or 2835.958.xyz, or BSA, order number: 2835.919.xyz). **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

CDLPQTHSLG SRRTLMLLAQ MRKISLFSCL KDRHDFGFPQ EEFGNQFQKA ETIPVLHEMI QQIFNLFSTK
 DSSAAWDETL LDKFYTELYQ QLNDLEACVI QGVGVTTETPL MKEDSILAVR KYFQRITLYL KEKKYSPCAW
 EVVRAEIMRS FSLSTNLQES LRSKE.

(N-terminal methionine has been completely removed enzymatically)

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.