

Interferon Alpha A2

Recombinant Human Interferon Alpha A2

Catalog#: **BX1008-200** 200 µg
BX1008-1000 1.0 mg

CAS Number: 105388-21-4
MDL number: MFCD01635115
Lot#: On vial label

Formulation: Powder lyophilized from a volatile buffer (50 mM NH₄HCO₃, pH 8.0).

Preservative: None.

MW: 19 kDa

Coefficiency: 1 A280 = 1.07 mg/ml

Purity: >97% on 15% SDS-PAGE.

Source: Recombinant mature protein expressed in *E. coli*.

Sterility: 0.2 µm membrane-filtered and packaged aseptically.

ED50: ND

Endotoxin*: ≤0.1 EU/µg

QC Tests: SDS-PAGE

Reconstitution and Use:

Reconstitute the contents of the vial using sterile buffer to a concentration no less than 100 µg/ml and aliquot for future use. (*If the initial rehydration is too dilute, activity may be lost due to the non-specific adsorption to the container*). The solution can then be further diluted to a working stock solution.

If the product is going to be used for applications requiring absolute asepsis, it's best to filter-sterilize the solution using a sterile and non-pyrogenic 0.2 µm membrane before use.

Storage and Stability:

Upon receiving, store the product at -20 °C. After reconstitution, store the working aliquots at 2-8 °C for no more than 3 months. For extended storage, aliquot the rehydrated solution (≥100 µg/ml) and freeze at -70 °C. Avoid repeated freezing and thawing. More dilute solutions stored at -20 °C will lose activity faster.

**Endotoxin Assay:

Endotoxin Unit (EU) is determined by Limulus Amebocyte Lysate (LAL) assay (Sigma).

About Human Interferon Alpha A2

Human interferon alpha A2 is a 167-amino acid protein. It induces a variety of effects on target cells including antiviral, antiproliferative and immunomodulatory activities.

Amino Acid Sequence:

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1 CDLPQTHSLG SRRTLMLLAQ MRRISLFSCS KDRHDFGFPQ
41 EEFNGQFQKA ETIPVLHEMI QQIFNLFSTK DSSAAWDETL
81 LDKFYTELYQ QLNDLEACVI QGVGVTEPL MKEDSILAVR
121 KYFQRITLYL KEKKYSPCAW EVVRAEIMRS FSLSTNLQES
161 LRSKE
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Further Readings:

Rubinstein, S., et al., Convenient assay for interferons J. Virol. 37, 755-758 (1981)
Familletti, P, et al., A convenient and rapid cytopathic effect inhibition assay for interferon. Meth. Enzymol. 78, 387-394 (1981)
Pestka, S, Interferon standards and general abbreviations Meth. Enzymol. 119, 14-23 (1986)