

Product Information

Interferon- α A, human
recombinant, expressed in *Escherichia coli*
cell culture tested

Catalog Number **I4276**
Storage Temperature -20°C

CAS RN 105388-21-4
Synonyms: IFN- α A, Hu-IFN- α A, Interferon α 2A

Product Description

Type I Interferons are a closely related family of 165–172 amino acid proteins that are produced by leucocytes (α subtypes), fibroblasts (β subtypes), lymphocytes (ω subtypes), and ruminant embryos (τ subtypes).¹ Interferon induces a variety of effects on target cells including antiviral, antiproliferative, and immunomodulatory activities.

This recombinant, human Interferon- α A product (19 kDa) is a carrier-free recombinant interferon produced from cDNA obtained from human leucocyte mRNA expressed in *E. coli*. It is supplied as a solution in 5 mM sodium acetate, pH 4.0.

Purity: $\geq 95\%$ (SDS-PAGE and HPLC)

Endotoxin level: <1 EU/ μg

The biological activity of recombinant, human IFN- α A is determined in the cytopathic effect inhibition assay using MDBK cells with vesicular stomatitis virus (VSV).^{2,3} A cytopathic effect of 50% is produced with 1 unit/ml interferon. The units are determined with respect to WHO International Standard Reference for human interferon α A (Hu-IFN- α A).

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Dilute the product in buffers containing $\geq 0.1\%$ bovine serum albumin.

Storage/Stability

The product ships on wet ice and storage at -20°C is recommended.

References

1. The Cytokine Facts Books, Callard, R., and Gearing, A., eds., (Academic Press, 1994), p. 148.
2. Rubinstein, S. et al., J. Virol., **37**, 755-758 (1981).
3. Familletti, P.C., et al., Methods Enzymol., **78**, 387-394 (1981).

MM,KEK,JR,PHC,MAM 10/13-1