

HUMAN INTERFERON ALPHA 4b

Product Number: 11180-1

Lot Number:

Size: ≥ 1 X 10⁵ units

Description: Recombinant Human Interferon Alpha 4b (Hu-IFN-α4b; Hu-IFN-α4)

Volume: 0.1 ml

Activity: x 10 units/ml (MDBK/VSV)

Specific Activity: x 10 units/mg [MDBK/VSV]

Buffer: phosphate-buffered saline (PBS) containing 0.1% bovine serum albumin (BSA)

Endotoxin: < 1 EU/µg

Molecular Weight: 19.4 kDa

Purity: ≥ 95%

Purification Method: Purified from E. coli by a combination of lon Exchange, Hydrophobic Interaction, and size exclusion

chromatography

Source: cDNA obtained from human leukocyte mRNA expressed in E. coli

Human Gene: IFNA4 Synonyms: Hu-IFN-α4

Accession Number: X02955

Assay Used to Measure Bioactivity: Interferon was titrated with the use of the cytopathic effect inhibition assay as listed.

Bovine (MDBK/VSV)-performed as described [Rubinstein et al. (1981) J. Virol. 37 (2):755]. The EC₅₀ for interferon in this assay is \sim 5 U/ml. Lot Activity was derived from multiple determinations in the above assay.

Human (A549/EMCV) - performed as described [Budd et al. (1985) Canc. Chem. Pharm. 12:39]. The EC₅₀ for interferon in this assay is \sim 1 U/ml. Activity: x 10 units/ml Specific Activity: x 10 units/mg

The units are determined by use of a Human IFN Alpha A (Hu IFN- α A [2a]) laboratory standard calibrated to the international reference standard for Human Interferon Alpha A (Hu IFN- α A [2a]) provided by the National Institutes of Health [Meager *et al.* (2001) *J. Immunol Methods.* 257(1-2):17-33]. Please note that IFN assays vary between labs and assay systems [Meager *et al.* (2001). *J. Immunol. Meth.* 257:17. Meager and Das (2005) *J. Immunol. Meth.* 306:1]

Shipping Information

Shipping Conditions: Dry ice

Physical State of Product during Shipping: Frozen

Special Conditions/Comments: After receipt, this product should be kept at -70° C or below for retention of full activity. When thawing, the contents of the tube should be apportioned in separate tubes so that freezing and thawing is kept to a minimum. Refreezing should be done on dry ice or in a dry ice/alcohol bath. Further dilution of the product should be in buffers containing protein such as 0.1% bovine serum albumin (BSA) or Tissue Culture Media with serum. Dilution for freezing of material below 2×10^5 units/ml is not recommended. One freeze-thaw cycle is equivalent to thawing an aliquot prepared from the material received. [The activity measured

after one freeze-thaw cycle is	x 10	units/ml _(MDBK/VSV)].	
Authorization			

Released bu:	Date



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