

HUMAN INTERFERON ALPHA 4a

Product Number: 11177-1

Lot Number:

Size: $\geq 1 \times 10^5$ units

Description: Recombinant Human Interferon Alpha 4a (Hu-IFN- α M1)

Volume: 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/ μ g

Molecular Weight: 19.4 kDa

Purity: $\geq 95\%$

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

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

Human Gene: IFNA4

Synonyms: Hu-IFN- α M1

Accession Number: NM_021068

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 ~ 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 ~ 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. Re-freezing 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)].



promising results

GTCTCTTACC CGGATGTTCA ACCAAAAG ACTTACTACC TTTATTTTAT GTTTACTTTT TATAGATTGT CTTTTTATC
TCCTTACTGC CCGCAACAAC AFACTAAA AAAACACTGA AATACTACTA CATCAAAACG CATATTCCCT AGAAAAAAA

Authorization

Released by: _____

Date:

Sold under license from Pestka Biomedical Laboratories, Inc. d/b/a PBL InterferonSource. For research use only. Not for diagnostic or clinical use in, or administration to, humans. Not for resale in original or any modified form, including inclusion in a kit, for any purpose. Not for use in the preparation of any commercial product.

Rev.01