pbl assay science 131 Ethel Road West, Suite 6 | Piscataway, NJ 08854 USA | T:+1.732.777.9123 | F:+1.732.777.9141 | E: info@pblassaysci.com | W: pblassaysci.com

Certificate of Analysis

Human Interferon Alpha C (Alpha 10)

Catalog No: 11120-1 Lot No: Size: $\geq 1 \times 10^5$ units/vial

Description: Recombinant Human Interferon Alpha C (Alpha 10) (Hu-IFN-aC; Hu-IFN-a10)

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/µg

Molecular Weight: 19.4 kDa

Purity: ≥ 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: IFNA10

Synonyms: Hu-IFN-α10 Accession #: X02961

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/ma

The units are determined by use of a Human IFN Alpha A (Hu-IFN-αA [2a]) laboratory standard calibrated to the international reference standard for Human Interferon Alpha A (Hu-IFN-αA [2a]) provided by the National Institutes of Health [Meager, et al (2001). J. Immunol. Meth. 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 Conditions: Dry Ice

Physical State of Product During Shipping: Frozen

Storage Conditions/Comments: After receipt, the product may be stored at -20°C for short-term use (≤ 6 months). For long-term storage, we recommend storing the product 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 of material below 2 x 10⁵ units/ml for freezing is not recommended. One freeze-thaw cycle is equivalent to thawing an aliguot prepared from the material received. [The activity measured after one freeze-thaw cycle is x 10 units/ml (MDBK/VSV)]. For more information on protein handling, visit our Resource Library at www.pblassaysci.com.

Authorization

Released by:

Date:

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