pbl assay science

Certificate of Analysis

Human Interferon Beta 1a, mammalian

Catalog No: 11410-2 Lot No: 7413 Size: $\ge 1 \times 10^6$ units/vial

Description: Recombinant Human Interferon Beta 1a, mammalian (Hu-IFN-β 1a) Volume: 0.1 ml Activity: 3.44 x 10⁷ units/ml Specific Activity: 4.14 x 10⁸ units/mg Buffer: 10mM Acetic Acid Endotoxin: <1 EU/μg Molecular Weight: ~23 kDa Purity: > 95%, one N- linked glycosylation site Purification Method: Proprietary chromatography methods Source: Human fibroblast interferon cDNA expressed in CHO cells Synonyms: Fibroblast interferon Human Gene: IFNB1 Accession #: V00534

Assay Used to Measure Bioactivity: Interferon was titrated with the use of the cytopathic effect inhibition assay as described [Familletti, *et al.* (1981) "A Convenience and Rapid Cytopathic Effect Inhibition Assay for Interferon," in *Methods in Enzymology*, Vol. 78 (S. Pestka, ed.), Academic Press, New York, 387-394]. Encephalomyocarditis virus (EMCV) was used to challenge A549 cells [Budd, *et al.* (1985) *Canc. Chem. Pharm.* 12:39]. The activity was determined relative to a lab standard of Hu-IFN- β which was calibrated to the NIH Hu-IFN- β standard (Gb23-902-531). The EC₅₀ for IFN is ~1 U/ml. Lot activity was derived from multiple determinations in the above assay. 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: Wet Ice

Physical State of Product During Shipping: Liquid

Storage Conditions/Comments: After receipt, this product should be kept at 2-8°C for retention of full activity. Further dilution of this product for long term storage is not recommended. For more information on protein handling, visit our Resource Library at <u>www.pblassaysci.com</u>.

Authorization

Released by:

har

Date: September 27, 2021

Sold under license from Pestka Biomedical Laboratories, Inc. d/b/a PBL Assay Science. 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. 04