

Certificate of Analysis

Human Interferon Beta 1a, mammalian

Catalog No: 11415-1 Lot No: 7478 Expiration: June 3, 2023 Size: \geq 1 x 10⁵ units/vial

Description: Recombinant Human Interferon Beta 1a, mammalian (Hu-IFN-β-1a) Volume: 0.1 ml Activity: 2.94 x 10⁶ units/ml Specific Activity: 2.94 x 10⁸ units/mg Buffer: 50 mM NaOAc, pH 5.5 containing 0.1% BSA Endotoxin: < 1 EU/μg Molecular Weight: ~23 kDa Purity: > 95%, one N-linked glycosylation site Purification Method: Proprietary chromatography methods Source: cDNA obtained from human fibroblast mRNA expressed in CHO cells Human Gene: IFNB1 Synonyms: Fibroblast Interferon 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: 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 (\leq 6 months). For long-term storage, we recommend storing the product at -70°C or below for retention of full activity. Thaw product vial by incubation in cold tap water until just thawed – 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). For more information on protein handling, visit our Resource Library at www.pblassaysci.com.

Authorization

Released by:

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Date: February 8, 2022

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