



## HUMAN INTERFERON BETA 1A

|                           |  |                       |                              |
|---------------------------|--|-----------------------|------------------------------|
| <b>CATALOG NUMBER:</b>    | IF014  | <b>QUANTITY:</b>      | 100 kU                       |
| <b>LOT NUMBER:</b>        |  | <b>CONCENTRATION:</b> | 1 x 10 <sup>6</sup> units/mL |
| <b>ALTERNATIVE NAME:</b>  | Fibroblast Interferon<br>(Accession # V00534)  |                       |                              |
| <b>DESCRIPTION:</b>       | Recombinant Human Interferon Beta 1a (Hu-IFN $\beta$ 1a). Molecular weight is ~23 kDa.   |                       |                              |
| <b>SOURCE:</b>            | cDNA obtained from human fibroblast mRNA expressed in CHO cells.   |                       |                              |
| <b>SPECIFIC ACTIVITY:</b> | 9.65 x 10 <sup>6</sup> units/mg  |                       |                              |
| <b>BIOACTIVITY:</b>       | Determined by assaying inhibition of virus-induced cytopathic effect. In this antiviral assay for interferon, about 1 unit/ml of interferon is the quantity necessary to produce a cytopathic effect of 50%. The units are determined with respect to the international reference standard for human interferon beta (Hu-IFN $\beta$ ) provided by the National Institutes of Health. Unit of activity measured on A549 cells with Encephalomyocarditis virus (EMCV).        |                       |                              |
| <b>PURITY:</b>            | > 95%, one N-linked glycosylation site. Endotoxin level is less than 1 EU/ $\mu$ g.  |                       |                              |
| <b>PRESENTATION:</b>      | Frozen liquid in 50 mM NaOAc, pH 5.5, containing 0.1% BSA.   |                       |                              |
| <b>STORAGE/HANDLING:</b>  | After receipt, this product should be kept at -70°C or below for retention of full activity. Thaw product vial by incubation cold tap water until just thawed. Thawed IFN $\beta$ should be stored in working aliquots at -70°C for up to six months. Avoid multiple freeze/thaw cycles. 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). |                       |                              |

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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