

# Recombinant Human Interferon Beta 1a (IFN-β1a)








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Rev. 1.00

<b>Catalog Number:</b>	PHC4244
<b>Quantity:</b>	1 × 10 <sup>5</sup> units in 0.1 mL
<b>Lot Number:</b>	See product label.
<b>Molecular Weight:</b>	Approximately 23.0 kDa. It is important to note that this recombinant protein contains one N-glycosylation site.
<b>Purity:</b>	≥95%
<b>Accession Number:</b>	V00534
<b>Biological Activity:</b>	3.99 × 10 <sup>8</sup> units/mg. The biological activity is determined by titration with the use of the cytopathic effect inhibition assay (Familletti et al., 1981; Rubinstein et al., 1981). In this antiviral assay for interferon, about 1 unit/mL of interferon is the quantity necessary to inhibit the cytopathic effect by 50% using VERO (African green monkey) cells challenged with vesicular stomatitis virus (VSV). The units are determined with respect to the international reference standard for human interferon beta (human IFN-β) provided by the National Institutes of Health (Pestka, 1986).
<b>Formulation:</b>	Purified recombinant protein in 10 mM acetic acid.
<b>Production:</b>	cDNA derived from human fibroblast mRNA, expressed in CHO cells.
<b>Reconstitution Recommendation:</b>	Polypropylene tubes and pipette tips should be used when diluting this interferon. Further dilutions should be made in buffered solution containing a carrier protein, such as BSA. The optimal concentration should be determined for each specific application.
<b>Storage:</b>	Store at 2°C to 8°C. For maximal stability, apportion into working aliquots and store at 2°C to 8°C. DO NOT FREEZE.
<b>Expiration Date:</b>	Expires one year from date of receipt when stored as instructed.
<b>References:</b>	Familletti, P.C., S. Rubinstein, and S. Pestka (1981) A Convenient and Rapid Cytopathic Inhibition Effect Inhibition Assay for Interferon. <i>Methods in Enzymology</i> 78:387–394. Pestka, S. (1986) Interferon Standards and General Abbreviations. <i>Methods in Enzymology</i> 119:14–23. Rubinstein, S., P.C. Familletti, and S. Pestka (1981) A Convenient and Rapid Cytopathic Effect Inhibition Assay for Interferon. <i>Methods in Enzymology</i> 78:387–394.

## Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

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