

## IFNB1

### Recombinant Human Interferon Beta 1a

<b>Catalog No.</b>	CR2062	<b>Quantity:</b>	$\geq 1 \times 10^6$ U
<b>Alternate Names:</b>	Interferon beta 1a, Fibroblast interferon, IFNB, IFB, IFF		
<b>Description:</b>	Recombinant human Interferon Beta 1a, mammalian (Hu IFN- $\beta$ 1a)		
<b>Volume:</b>	100 $\mu$ L		
<b>Gene ID:</b>	3456		
<b>UniProtKB:</b>	P01574		
<b>Source:</b>	CHO cells		
<b>Molecular Weight:</b>	~23 kDa		
<b>Formulation:</b>	Liquid in a buffer of 10 mM acetic acid		
<b>Purity:</b>	> 95%, one N-linked glycosylation site		
<b>Endotoxin Level:</b>	< 1 EU/ $\mu$ g		
<b>Purification Method:</b>	Proprietary chromatography methods		
<b>Biological Activity:</b>	$2.82 \times 10^7$ units/mL		
<b>Specific Activity:</b>	$2.9 \times 10^8$ units/mg		
<b>Assay Used to Measure Bioactivity:</b>	Interferon was titrated with the use of the cytopathic effect inhibition assay as described [Familletti, <i>et al.</i> (1981) "A Convenience and Rapid Cytopathic Effect Inhibition Assay for Interferon," in <i>Methods in Enzymology</i> , Vol. 78 (S. Pestka, ed.), Academic Press, New York, 387-394]. Encephalomyocarditis virus (EMCV) was used to challenge A549 cells [Budd <i>et al.</i> (1985) <i>Canc. Chem. Pharm.</i> 12:39]. The activity was determined relative to a lab standard of Human IFN-beta which was calibrated to the NIH Human IFN-beta standard (Gb23-902-531). The EC <sub>50</sub> 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 <i>et al.</i> (2001). <i>J. Immunol. Meth.</i> 257:17. Meager and Das (2005) <i>J. Immunol. Meth.</i> 306:1]		
<b>Storage &amp; Stability:</b>	<b>Centrifuge vial prior to opening.</b> Upon receipt, store at 2-8 °C for retention of full activity. Further dilution of this product is not recommended for long term storage.		

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