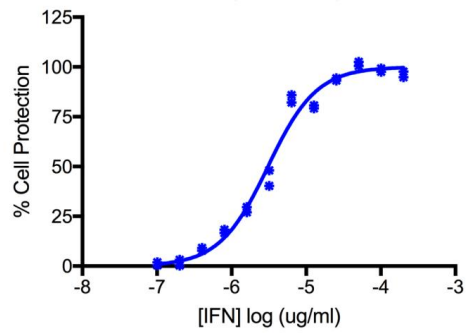


## IFNA2

### Recombinant Human IFN-alpha 2a

<b>Catalog No.</b>	CR2002	<b>Quantity:</b>	$\geq 5 \times 10^6$ Units
<b>Alternate Names:</b>	Interferon alpha-2, IFN-alpha-2, Interferon alpha-A, IFN- $\alpha$ -2a		
<b>Description:</b>	<p>IFN-Alpha 2a is one of the many interferon alpha subtypes belonging to the Type I leukocyte IFN family. The Type I IFN family has antiviral, anti-proliferative, and natural killer cell activities.</p> <p>IFN-Alpha 2a and b are the most widely used therapeutic IFN-Alphas. Available without BSA carrier protein.</p>		
<b>UniProt ID:</b>	P01563		
<b>Source:</b>	cDNA obtained from human leukocyte mRNA expressed in <i>E. coli</i>		
<b>Molecular Weight:</b>	19.2 kDa		
<b>Volume:</b>	0.100 ml		
<b>Specific Activity:</b>	$\sim 2 \times 10^8$ units/mg <sub>(MDBK/VSV)</sub> $\sim 3 \times 10^8$ units/mg <sub>(A549/EMCV)</sub>		
<b>Biological Activity:</b>	$\sim 5 \times 10^7$ units/ml <sub>(MDBK/VSV)</sub> $\sim 7 \times 10^7$ units/ml <sub>(A549/EMCV)</sub> <p><b>CPE Inhibition Assay</b> using Bovine Kidney Cells (MDBK) with Vesicular Stomatitis Virus (VSV), as described [Rubinstein <i>et al.</i> (1981) <i>J. Virol.</i> 37(2):755]. The EC<sub>50</sub> for interferon in this assay is <math>\sim 5</math> U/ml.</p> <p><b>CPE Inhibition Assay</b> using Human lung carcinoma cell line A549 with encephalomyocarditis virus (EMCV), as described [Budd <i>et al.</i> (1985) <i>Canc. Chem. Pharm.</i> 12:39]. The EC<sub>50</sub> for interferon in this assay is <math>\sim 1</math> U/ml.</p>		
<b>Purity:</b>	> 95% by SDS-PAGE stained by Coomassie Blue		
<b>Purification:</b>	Ion exchange, hydrophobic interaction and size exclusion chromatography.		
<b>Formulation:</b>	PBS containing 0.1% BSA.		
<b>Endotoxin Level:</b>	< 1 EU/ $\mu$ g		
<b>Storage &amp; Stability:</b>	<p>After receipt, the product can be stored at <math>-20^\circ\text{C}</math> for short term use (<math>\leq 6</math> months). For long term storage, this product should be kept at <math>-80^\circ\text{C}</math> 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 in order to <b>avoid repeated freeze-thaw cycles</b>. Refreezing should be done on dry ice or in a dry ice/alcohol bath. Further dilution of the product should be done in buffers containing protein such as 0.1% BSA or tissue culture media with serum. Dilution of material below <math>2 \times 10^5</math> units/ml for freezing is not recommended.</p>		

Titration of rhIFN-alpha 2a in CPE inhibition assay using A549/EMCV



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