Recombinant Rat Interferon-Alpha 1

Cat. No. Ifna1-70R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Interferon Alpha 1, produced by transfected*insect cells (Sf9)*, was 19.0 kDa.
Species	Rat
Source	Sf9 Cells
Description	Interferon alpha-1/13 is a protein that in humans is encoded by the IFNA1 gene. Leukocyte interferon is produced predominantly by B lymphocytes. Immune interferon is produced by mitogen- or antigen-stimulated T lymphocytes.
Purity	> 95% by HPLC analysis.
Biological Activity	Fully biologically active when compared to standards. Specific activity of 2 x 108 units/mg, as determined by cytopathic effect inhibition assay using rat cells challenged with VSV.
Handling And Storage	Purified Rat IFN Alpha 1 factor is provided lyophilized from Tris buffer with 200 ug/mL rat serum albumin. Store lyophilized, at -20°C. Upon reconstitution with 100 uL distilled water or buffer (5 mM Tris, 150 mM NaCl, pH 7.0), further dilute in buffered solutions. Store small aliquots at -20°C for long-term storage, at high concentration.

GENE INFORMATION

Gene Name	Ifna1 interferon-alpha 1 [Rattus norvegicus]

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Synonyms	Ifna1; interferon-alpha 1; IFN-alpha1; interferon alpha 1
Gene ID	298210
mRNA Refseq	NM_001014786
Protein Refseq	NP_001014786
UniProt ID	P05011
Chromosome Location	5q32
Pathway	Antigen processing and presentation; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; RIG-I-like receptor signaling pathway; Regulation of autophagy; Toll-like receptor signaling pathway
Function	cytokine activity; cytokine receptor binding

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