

Recombinant Bovine Interferon-Alpha

Cat. No. IFN-a-62B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine interferon-alpha was expressed in Yeast. MW=19.0kDa (166aa).
Species	Bovine
Source	Yeast
Description	The IFN- α proteins are produced by leukocytes. They are mainly involved in innate immune response against viral infection. They come in 14 subtypes that are called IFNA1, IFNA2, IFNA4, IFNA5, IFNA6, IFNA7, IFNA8, IFNA10, IFNA13, IFNA14, IFNA16, IFNA17, IFNA21. These genes for these IFN- α molecules are found together in a cluster on chromosome 9. IFN- α is also made synthetically as medication. Types are: Pegylated interferon alfa-2a ; Pegylated interferon alfa-2b.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.
Amino Acid Sequence	CHLPHTHSLA NRRVLMLLQQ LRRVSPSSCL QDRNDFEFLQ EALGGSQQLQK AQAISVLHEV TQHTFQLFST EGSPATWDKS LLDKLRAALD QQLTDLQACL TQEEGLRGAP LLKEDSSLAV RKYFHRRLTY LQEKRHSPCA WEVVRAEVMR AFSSSTNLQE SFRRKD.

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Bioactivity	In testing.
Stability And Storage	Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.
GENE INFORMATION	
Gene Name	IFN-a interferon-alpha [Bos taurus]
Synonyms	interferon-alpha; IFNaA; IFN-a; interferon alpha-A; interferon alpha A
Gene ID	515951
mRNA Refseq	NM_001017411.1
Protein Refseq	NP_001017411.1
UniProt ID	P05007
Chromosome Location	8
Pathway	Antigen processing and presentation; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Jak-STAT signaling pathway; 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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