

Recombinant Human Interferon, Alpha 2

Cat. No. IFNA2-91H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interferon, Alpha 2 was expressed in <i>Pseudomonas putida</i> . MW = 19.2 kDa.
Species	Human
Source	Pseudomonas Putida
Description	Interferon- α (INF- α), also known as leukocyte interferon, comprises a group of related but distinct proteins that share over 95 % amino acid sequence homology. They are members of the type I interferon family which share a common cell surface receptor composed of two subunits, 100 kDa ligand-binding subunit (INF- α R1) and a 125 kDa subunit (INF- α R2) that is involved both in ligand binding and signal transduction. INF- α has both anti-viral and immunomodulatory activities on target cells.
Purity	>98% determined by HPLC and PAGE.
Form	lyophilised with carrier.
Sterilized	Yes.
Biological Activity	>2.5 x 10E+8 unit/mg was determined in the cytopathic effect inhibition assay using human diploid fibroblast cells with vesicular stomatitis virus (VSV). A cytopathic effect of 50% was produced with 1 unit/ml interferon. The units are determined according to the international reference standard provided by WHO.

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Contaminations	protein <2% (HPLC), DNA <50pg/mg of protein.
Storage	-70°C.
GENE INFORMATION	
Gene Name	IFNA2 interferon, alpha 2 [Homo sapiens]
Synonyms	IFNA2; interferon, alpha 2; Interferon, alpha-2;; IFNA; INFA2; MGC125764; MGC125765; Interferon alpha A; Alpha-2a interferon; Interferon alpha 2b; OTTHUMP00000021143; Interferon alpha-A; LeIF A
Gene ID	3440
mRNA Refseq	NM_000605
Protein Refseq	NP_000596
MIM	147562
UniProt ID	P01563
Chromosome Location	9p22
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; interferon-alpha/beta receptor binding

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