

Recombinant Human HSA-Interferon Alpha-2b

Cat. No. INFA2-04H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant HSA fusion Interferon alpha-2b produced in <i>P. Pichia</i> is a single, non-glycosylated, polypeptide chain having a molecular mass of 85.7 kDa
Species	Human
Source	Yeast
Description	At least 23 different variants of Interferon-alpha are known. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. All IFN-alpha subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN-alpha subtypes differ in their sequences at only one or two positions. Naturally occurring variants also include proteins truncated by 10 amino acids at the carboxyl-terminal end.
Purity	>98% as determined by SDS-PAGE , RP-HPLC and FPLC.
Formulation	Lyophilized from a (3mg/ml) solution in containing 2.4mg Tris base and 8.8mg sodium chloride.
Specific Activity	The specific activity as determined in a viral resistance assay using VSV-WISH cells was found to be 5.0×10^6 IU/mg.
Endotoxin	Less than 0.1 ng/g (IEU/g) of HSA-IFN-alpha 2b.

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Reconstitution It is recommended to reconstitute the lyophilized HSA-IFN alpha-2b in sterile 18MΩ-cm H₂O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

Storage Lyophilized HSA-IFN alpha-2b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HSA-IFN alpha-2b should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name IFNA2

Synonyms IFNA; INFA2; MGC125764; MGC125765; Leukocyte interferon; B cell interferon, Type I interferon; IFNA2; IFN-α2a; Interferon alpha-A; LeIF A; Interferon alpha-2; Interferon alpha-2 Precursor; interferon, alpha 2

Gene ID 3440

mRNA Refseq NM_000605.2

Protein Refseq NP_000596.2

MIM 147562

UniProt ID P01563

Chromosome Location 9p22

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Pathway	Antigen processing and presentation; Cytokine-cytokine receptor interaction ;Jak-STAT signaling pathway ;KEGG pathway: Natural killer cell mediated cytotoxicity ;Regulation of autophagy ;Toll-like receptor signaling pathway
Function	interferon-alpha/beta receptor binding

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