

Active Recombinant Human HAS-IFNA2

Cat. No. HAS-IFNA2-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Serum Albumin and Interferon (HSA-IFN)- α 2b produced in P. Pichia is a single non-glycosylated, polypeptide chain having a molecular mass of 85,700 Da.
Species	Human
Source	Pichia
Description	At least 23 different variants of Interferon-alpha are known. The individual proteins have molecular masses between 19,000-26,000 Da 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.
Form	Lyophilized from a (1 mg/ml) solution in containing 5.55 mg sodium phosphate dibasic, 5.55 mg sodium phosphate monobasic buffer, 296 mg sucrose and 0.37 mg Tween 80.
Bio-activity	Human HSA-IFN- α 2b is fully biologically active when compared to standard. The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 5×10^7 IU/mg.
Molecular Mass	85,700 Da

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Endotoxin	Less than 0.1 ng/μg (1 EU/μg) of human HSA-IFN-α 2b
Purity	Greater than 98.0% as determined by:(a) Analysis by RP-HPLC(b) Anion-exchange FPLC(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel
Storage	Lyophilized HSA-IFN-a2b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HSA-IFN-α 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 ass a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized HSA-IFN a2b in sterile 18 MΩ-cm H2O not less than 100 μg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	IFNA2 interferon, alpha 2 [Homo sapiens]
Official Symbol	IFNA2
Synonyms	IFNA2; interferon, alpha 2; interferon alpha-2; alpha 2a interferon; IFN alphaA; IFNA; interferon alpha 2b; interferon alpha A; IeIF A; IFN-alpha-2; alpha-2a interferon; INFA2; IFNA2B; IFN-alphaA; MGC125764; MGC125765;
Gene ID	3440
mRNA Refseq	NM_000605
Protein Refseq	NP_000596

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MIM	147562
UniProt ID	P01563
Chromosome Location	9p22
Pathway	Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem;
Function	cytokine activity; interferon-alpha/beta receptor binding; protein binding;

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