GMP Recombinant Human Interferon-alpha 2b

Cat. No. IFNA2-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Human Interferon-alpha 2b produced in E. coli is a single, non-glycosylated, polypeptide chain containing 166 amino acids and having a molecular mass of 19400 Dalton. The Interferon-alpha 2b gene was obtained from human leukocytes.
Species	Human
Source	Yeast
Description	At least 23 different variants of IFN-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 carboxy-terminal end.
Form	Lyophilized from a (1mg/ml) solution in containing 8.8mg sodium chloride, 0.4mg sodium acetate and 1.0mg acetate acid buffer.
Bio-activity	The specific activity as determined in a viral resistance assay using VSV- WISH cells was found to be greater than 1.0 x 108 IU/ mg.
Endotoxin	Less than 0.3ng/μg (0.3IEU/μg) determined by LAL test.

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Purity	>95% as determined by SEC-HPLC and SDS-PAGE
Storage	Lyophilized rHuIFN-alpha 2b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuIFN-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.
Reconstitution	It is recommended to reconstitute the lyophilized rHuIFN-alpha2b in sterile 18MΩ-cm H2O not less than 100µg/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; leIF A; IFN-alpha-2; alpha-2a interferon; INFA2; IFNA2B; IFN-alphaA; MGC125764; MGC125765;
Gene ID	3440
mRNA Refseq	NM_000605
Protein Refseq	NP_000596
MIM	147562
UniProt ID	P01563

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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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