

# Recombinant Human Pegylated Interferon Alpha-2b

**Cat. No.** IFNA2-05H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Interferon alpha-2b produced in <i>E. coli</i> is a single, non-glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of 19269 Dalton. Pegylated IFN alpha-2b is manufactured by attaching a 40KD NHS-mPEG to the primary amino acid of IFN alpha-2b.                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | <i>E. coli</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 1.0 mL delivers 8.0 mg sodium chloride, 0.05 mg polysorbate 80, 2.62 mg sodium acetate trihydrate, and 0.05 mg acetic acid. The solution is colorless to light yellow and the pH is $6.0 \pm 0.5$ .                                                                                                                                                                                                                                                                                                                                        |
| <b>Bio-activity</b>     | The specific activity as determined in a viral resistance assay using VSV-WISH cells was found to be $1.43 \times 10^6$ IU/mg.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>        | Less than 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                      |                                                   |
|----------------------|---------------------------------------------------|
|                      | ng/μg (IEU/μg) of PEG-IFN alpha-2b.               |
| <b>Purity</b>        | >98% as determined by SDS-PAGE, RP-HPLC and FPLC. |
| <b>Storage</b>       | Stable for 2 years upon stored at 2-8°C.          |
| <b>Concentration</b> | 0.36mg/ml                                         |

## GENE INFORMATION

|                        |                                                   |
|------------------------|---------------------------------------------------|
| <b>Gene Name</b>       | IFNA2 interferon alpha 2 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | IFNA2                                             |
| <b>Synonyms</b>        | IFNA; IFNA2B; leIF A; IFN-alphaA; IFN-alpha-2     |
| <b>Gene ID</b>         | 3440                                              |
| <b>mRNA Refseq</b>     | NM_000605                                         |
| <b>Protein Refseq</b>  | NP_000596                                         |
| <b>MIM</b>             | 147562                                            |
| <b>UniProt ID</b>      | P01563                                            |

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