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Product Data Sheet

Cat # SB-007-10	Pegylated Recombinant Human Interferon-alpha 2b (PEG-IFN α 2b)	Size: 10 ug
Cat # SB-007-50	Pegylated Recombinant Human Interferon-alpha 2b (PEG-IFN α 2b)	Size: 50 ug

Background:

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.

Description:

Recombinant Human Interferon alpha-2b produced in *E. coli* 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.

Quality Control:

Biological Activity: The specific activity as determined in a viral resistance assay using VSV-WISH cells was found to be 1.0×10^6 IU/mg.

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.

Amino acid sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-Cys-Asp-Leu-Pro.

Endotoxin: Less than 0.1 ng/ μ g (IEU/ μ g) of PEG-IFN alpha-2b.

Formulation: Lyophilized from a (0.5mg/ml) solution in containing 8.8mg sodium chloride, 0.4mg sodium acetate and 1.0mg acetate acid buffer.

Storage: Lyophilized PEG-IFN alpha-2b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution PEG-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).

Please avoid freeze-thaw cycles.

Reconstitution: It is recommended to reconstitute the lyophilized PEG-IFN alpha-2b in sterile $18\text{M}\Omega\text{-cm}$ H_2O not less than $100\mu\text{g/ml}$, which can then be further diluted to other aqueous solutions

Usage:

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. If supplied in powder then reconstitute it in 100 μl water for 1 mg/ml stock and store in liquid at 4°C for ~ 1 week or aliquots in suitable size and store at -20°C for long term storage..