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Product Data Sheet

Cat # SB-004-10	Recombinant HSA-Interferon-alpha 2b (HSA-IFN α 2b)	Size: 10 ug
Cat # SB-004-50	Recombinant HSA-Interferon-alpha 2b (HSA-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 HSA fusion Interferon alpha-2b produced in *P. Pichia* is a single, non-glycosylated, polypeptide chain having a molecular mass of 85.7 kDa.

Quality Control:

Biological 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.

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.

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

Formulation: Lyophilized from a (3mg/ml) solution in containing 2.4mg Tris base and 8.8mg sodium chloride.

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).

Please avoid freeze-thaw cycles.

Reconstitution: It is recommended to reconstitute the lyophilized HSA-IFN alpha-2b in sterile 18M Ω -cm H₂O not less than 100 μ 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 ul 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..

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