

## HSA-IFN- $\alpha$ 2b, Human

**Cat. No.:** Z02019-1

**Size:** 1.0 mg

**Synonyms:** HSA-IFN- $\alpha$  2b; HSA-IFNa2b, HSA-IFN a2b

**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. GenScript Human Serum Albumin and Interferon (HSA-IFN)- $\alpha$  2b produced in *P. Pichia* is a single non-glycosylated, polypeptide chain having a molecular mass of 85,700 Da.

**Source:** *P. pastoris*

**Species:** Human

**Biological Activity:** Human HSA-IFN- $\alpha$  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  $5 \times 10^7$  IU/mg.

**Molecular Weight:** 85,700 Da

**Formulation:** 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.

**Reconstitution:** It is recommended to reconstitute the lyophilized HSA-IFN a2b in sterile 18 M $\Omega$ -cm H<sub>2</sub>O not less than 100  $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

**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 Level:** Less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) of human HSA-IFN- $\alpha$  2b,

**Storage:** Lyophilized HSA-IFN-a2b 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 ass a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.