Technical Data Sheet

Recombinant Human Interferon-α2b (rHuIFN-α2b)

Human Interferon-α2b

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.

Catalog Number: RC217-15Y

Source: *Saccharomyces cerevisiae*

Molecular Weight: Approximately 19 kDa, a single non-glycosylated polypeptide chain containing 165 amino acids

Quantity: 20ug/100ug/1mg

AA Sequence: CDLPQTHSLG SRRTLMLLAQ MRRISLFSCL KDRHDFGFPQ EEFGNQFQKA
ETIPVLHEMI QQIFNLFSTK DSSAAWDETL LDKFYTELYQ QLNDLEACVI
QGVGVTETPL MKEDSILAVR KYFQRITLYL KEKKYSPCAW EVVRAEIMRS
FSLSTNLQES LRSKE

Purity: >98% by SDS-PAGE and HPLC analyses.

Biological Activity: Fully biologically active when compared to standard. Fully biologically active when compared to standard. The specific activity as determined in a viral resistance assay was found to be no less than 1.6×10^{8} IU/ mg.

Formulation: Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.

Endotoxin: Less than 1EU/μg of rHuIFN-a2b as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at

≤-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage: This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. **Avoid repeated freeze/thaw cycles**.

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