Technical Data Sheet

Recombinant Human Interferon-β1b (rHu IFN-β1b)

Human Interferon-β

Interferon-beta is one of the type I interferons produced by fibroblasts in response to stimulation by live or inactivated virus or by double-stranded RNA. It is a cytokine with antiviral, antiproliferative, and immunomodulating activity. The synthesis of IFN-beta can be induced by common inducers of interferons, including viruses, double-stranded RNA, and micro-organisms. It is induced also by some cytokines such as TNF and IL-1.

Catalog Number:	RC217-16
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 18.5 kDa, a single non-glycosylated polypeptide chain containing 165 amino acids.
Quantity:	2ug/10ug/1mg
Purity:	>96% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The specific activity as determined in a viral resistance assay is less then 0.03 ng/ml, corresponding to a specific activity of 4.0×10^7 IU/ mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4, containing 3% manitol.
Endotoxin:	Less than 1EU/μg of rHuIFN-β1b 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 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**.
Usage:	This material is offered by Bio Basic Canada Inc. for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.

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