

32-1311: IFN a 1b Recombinant Protein

Description

Source : Escherichia Coli. Interferon-alpha 1b Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 166 amino acids and having a molecular mass of 19392 Dalton. The Interferon-alpha 1b gene was obtained from human leukocytes. The IFN-a 1b is purified by proprietary chromatographic techniques. IFN-alpha 1b is produced by macrophages, IFN-alpha 1b has antiviral activities and stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase.

Product Info

Amount :	100 µg
Purification :	Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Lyophilized from a 0.2µm filtered solution (50ug/ml) in PBS, pH 7.4, containing 4% mannitol and 1% HSA.
Storage condition :	Lyophilized Interferon alpha 1b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-alpha 1b 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 prevent freeze-thaw cycles.
Amino Acid :	The sequence of the first five N-terminal amino acids was determined and was found to be Cys-Asp-Leu-Pro-Glu.

Application Note

It is recommended to reconstitute the lyophilized IFN alpha 1b in sterile 18M Ω -cm H₂O not less than 100Åµg/ml, which can then be further diluted to other aqueous solutions. The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 1 x 10⁸ IU/ mg.

