

Product: Pegylated Interferon-alpha 2b, Human, Recombinant
Catalog #: 11-PIFNA2b-H
Amount: 5 µg

DESCRIPTION: Recombinant Human IFN- α 2b produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of 19269 Dalton. The Interferon- α 2b gene was obtained from human leukocytes. rHuPEG-IFN- α 2b is manufactured by attaching a 12,000 dalton methoxypolyethylene glycol propionaldehyde (mPEG-ALD) to the N-terminal amino acid of IFN- α 2b having a total molecular mass of 31,269 dalton. rHuPEG-IFN- α 2b is purified by proprietary chromatographic techniques. The sequence of the first five N-terminal amino acids was determined and was found to be Cys-Asp-Leu-Pro-Gln. N-terminal methionine has been completely removed enzymatically

SOURCE: *E.Coli* Expression System

PURITY: Greater than 99.0% 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: < 0.1 ng/µg (IEU/µg) of rHuPEG-IFN- α 2b

DIMERS & AGREGATES: < 1% as determined by silver-stained SDS-PAGE gel analysis

FORM: Purified

PROTEIN CONTENT: Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 0.924 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a calibrated solution of PEG-IFN alpha 2b as a Reference Standard.

STORAGE: -20°C (aliquot), avoid repeated freeze and thaw cycles

BIOLOGICAL ACTIVITY: rHuPEG-IFN- α 2b is fully biologically active when compared to WHO standard. The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 0.7×10^8 IU / mg

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