

Product: Pegylated Interferon-alpha 2b, Human Recombinant
Catalog #: 11-PIFNA-2BH
Amount: 10 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.
The rHuIFN- 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 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: Less than 0.1 ng/µg (IEU/µg) of rHuPEG-IFN- α 2b.

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

FORM: Purified in 5.55mg Sodium phosphate dibasic, 5.55mg sodium phosphate monobasic buffer, 296mg sucrose and 0.37mg tween 80

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 IFN- α 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 x 10⁸ IU / mg.

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