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-α2b 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-α2b 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-α2b.

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-α2b as a Reference Standard.

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

BIOLOGICAL ACTIVITY:
rHuPEG-IFN-α2b 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.

489 Common Street, Belmont, MA 02478, USA; Email: info@arp1.com or staff@arp1.com
Phone: 800-832-2611 or 617-489-1120 Fax: 888-832-2613 or 617-489-5120