

Product: Pegylated Interferon-alpha 2a, Human, Recombinant
Catalog #: 11-PIFNA-2AH
Amount: 10 µg

DESCRIPTION: Recombinant Human IFN-Alpha 2a produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of 19241 Dalton. The Interferon-ALpha2a gene was obtained from human leukocytes. rHuPEG- IFN-Alpha 2a is manufactured by attaching a 40,000 dalton methoxypolyethylene glycol propionaldehyde (mPEG-ALD) to the N-terminal amino acid of IFN-Alpha 2a having a total molecular mass of 59,241 dlaton.. The rHuIFN-Alpha2a 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, conforming to the sequence of native human IFN-ALpha. 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-Alpha2a.

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

FORM: Purified in 8mg sodium chloride, 0.05mg tween 80, 0.05mg acetic acid and 2.62mg sodium acetate pH=6

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-□2a as a Reference Standard.

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

BIOLOGICAL ACTIVITY: rHuPEG-IFN-Alpha2a is fully biologically active when compared to standard. The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 0.7 x 10⁸

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