Datasheet for ABIN987980

IFN alpha 2b Protein

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Overview

Quantity:	50 µg
Target:	IFN alpha 2b
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	analysis The sequence of the first five N-terminal amino acids was determined and was found to be Met-Cys-Asp-Leu-Pro. N-terminal methionine has been completely removed enzymatica lly. p to grams level.
Characteristics:	The specific activity as determined in a viral resistance assay using VSV-WISH cells was found to be 1.0×108IU/mg.
Purity:	> 95.0 % 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 Level:	Level Less than 0.1 ng/µg (IEU/µg) of Recombinant Human Interferon alpha 2b (IFN alpha2b

Target Details

Target:	IFN alpha 2b
Alternative Name:	IFN-alpha 2b (IFN alpha 2b Products)
Background:	Human Interferon alpha 2b (IFN alpha2b) produced in E. coli is a single, non-glycosylated,

Target Details

	polypeptide chain containing 165 amino acids and having a molecular mass of 19,269 Da. The Interferon alpha 2b (IFN alpha2b) gene was obtained from human leukocytes. The Recombinant Human Interferon alpha 2b (IFN alpha2b) is purified by proprietary chromatographic techniques. Synonym: rHuIFN-alpha-2b, rHuIFNalpha-2b, rHuIFN-a-2b, rHuIFN-alfa-2b, rHuIFNalfa-2b, Interferon-alpha-2b, Interferonalpha-2b, Interferon-a-2b, Interferon-alfa-2b, Interferonalfa-2. Formulation: Lyophilized from a (1 mg/ml) solution in containing 2.3 mg Sodium phosphate dibasic and 0.55 mg sodium phosphate monobasic buffer.
Molecular Weight:	19.4kDa +/- 10% Isoelectric Point The main zone between 5.5-6.8 analysis by IEF. UV Scan The maximal absorption wave is 278+/-3 nm.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is recommended to reconstitute the lyophilized Recombinant Human Interferon alpha 2b (IFN alpha2b) in sterile 18M-omega-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Quantitation 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% (1 mg/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-alpha 2b as a Reference Standard.
Storage:	-20 °C

Publications

Product cited in:	Perales, Beach, Gallego, Soria, Quer, Esteban, Rice, Domingo, Sheldon: "Response of hepatitis C virus to long-term passage in the presence of alpha interferon: multiple mutations and a common phenotype." in: **Journal of virology**, Vol. 87, Issue 13, pp. 7593-607, (2013) (PubMed).