

## Recombinant Human Interferon-alpha 2b

<b>Catalog No.:</b>	ABSF80
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1 mg/ml
<b>Background:</b>	IFN-alpha is produced by macrophages and has antiviral activities. Interferon stimulates the production of two enzymes: protein kinase and an oligoadenylate synthetase.
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Sterile Filtered White lyophilized (freeze-dried) powder. <b>Purity:</b> Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. <b>Buffer System:</b> Lyophilized from a solution in containing 2.3 mg Sodium phosphate dibasic and 0.55 mg sodium phosphate monobasic buffer. <b>Reconstitution:</b> It is recommended to reconstitute the lyophilized Interferon-alpha 2b in sterile 18MO-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Description:</b>	Interferon-α 2b Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 165 amino acids. The Interferon-alpha 2b gene was obtained from human leukocytes. The IFN-α 2b is purified by proprietary chromatographic techniques. <b>AA Sequence:</b> 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. <b>Biological Activity:</b> The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 2.6 x 10 <sup>8</sup> IU/ mg. <b>Molecular weight:</b> 19269 Dalton
<b>Add. Information:</b>	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 Recombinant Interferon-alpha 2b as a Reference Standard.

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Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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**Storage:**

Lyophilized Interferon-alpha 2b although stable at room temperature for 3 weeks, should be stored desiccated below -18 C. Upon reconstitution IFN alpha 2b should be stored at 4 C between 2-7 days and for future use below -18 C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  
Please avoid freeze-thaw cycles.

**General References:**

1. Interstitial pneumonitis after combination therapy with pegylated interferon alpha-2b and ribavirin for chronic hepatitis C. *Chang Gung Med J* 2007 Jan-Feb;30(1):92-7
2. Peritoneal dissemination of hepatocellular carcinoma treated with a combination therapy of interferon-alpha-2b and oral tegafur/uracil. *Intern Med* 2007;46(9):565-9
3. Adenoviral mediated interferon-alpha 2b gene therapy suppresses the pro-angiogenic effect of vascular endothelial growth factor in superficial bladder cancer. *J Urol* 2007 May;177(5):1900-6
4. SCH 503034, a novel hepatitis C virus protease inhibitor, plus pegylated interferon alpha-2b for genotype 1 nonresponders. *Gastroenterology* 2007 Apr;132(4):1270-8
5. [Haemolytic uremic syndrome and acute mesenteric ischemia caused by interferon-alpha-2b in the treatment of Kaposi's sarcoma in an AIDS patient]. *Ann Dermatol Venereol* 2007 Jan;134(1):65-7
6. Viusid, a nutritional supplement, in combination with interferon alpha-2b and ribavirin in patients with chronic hepatitis C. *Liver Int* 2007 Mar;27(2):247-59

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