

## Overview

<b>Synonyms</b>	Interferon alpha 2b, IFNA, INFA2, MGC125764, MGC125765
<b>Description</b>	<b>Interferon-Alpha 2b (IFN-Alpha 2b)</b> produced by leukocytes is a member of Interferon family. IFN-alpha is mainly involved in innate immune response against a broad range of viral infections. IFN-alpha 2 has three acid stable forms (a,b,c) signaling through IFNAR2. IFN-alpha 2b shares 99.4% aa sequence identity with both IFN-alpha 2a and 2c. IFN-alpha contains four highly conserved cysteine residues which form two disulfide bonds, one of which is necessary for biological activity.  Recombinant <b>human Interferon-Alpha 2b (rhIFN-Alpha 2b)</b> produced in <i>E.coli</i> is a single non-glycosylated polypeptide chain containing 165 amino acids. A fully biologically active molecule, rhIFN-Alpha 2b has a molecular mass of 19.2kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 0.05 ng/ml, measured by a cytotoxicity assay using TF-1 Cells, corresponding to a specific activity of > 2.0× 10 <sup>7</sup> units/mg.
<b>Sequence</b>	CDLPQTHSLG SRRTLMLLAQ MRRISLFSCL KDRHDFGFPO EEFGNQFQKA ETIPVLHEMI QQIFNLFSTK DSSAAWDETL LDKFYTELYQ QLNDLEACVI QGVGVTTETPL MKEDSILAVR KYFQRITLYL KEKKYSPCAW EVVRAEIMRS FSLSTNLQES LRSKE

## Properties

<b>Measured Molecular Weight</b>	19.2kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% by SDS-PAGE and HPLC analyses.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>human Interferon-Alpha 2b (rhIFN-Alpha 2b)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhIFN-Alpha 2b should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

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