Active Recombinant Human IFNA2B Protein (165 aa)

Cat. No. IFNA2-381I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Interferon-Alpha 2b (rhIFN-Alpha 2b) produced in E. coli 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.
Species	Human
Source	E.coli
ProteinLength	165
Description	Interferon-Alpha 2b (IFN-Alpha 2b) 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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.05 ng/mL, measured by a cytotoxicity assay using TF-1 Cells, corresponding to a specific activity of > 2.0 × 10^7 units/mg.
Molecular Mass	19.2kDa, observed by reducing SDS-PAGE.

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AA Sequence	CDLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDFGFPQEEFGNQFQKAETIPVLH EMIQQIFNLFSTKDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGVTETPLMKED SILAVRKYFQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSKE
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant human Interferon-Alpha 2b (rhIFN-Alpha 2b) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhIFN-Alpha 2b should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O at 100 μg/mL.

GENE INFORMATION

Gene Name	IFNA2 interferon alpha 2 [Homo sapiens (human)]
Official Symbol	IFNA2
Synonyms	IFNA2; interferon alpha 2; IFNA; IFNA2B; leIF A; IFN-alphaA; IFN-alpha-2; interferon alpha-2alpha-2a interferoninterferon alpha 2ainterferon alpha 2binterferon alpha A
Gene ID	3440
mRNA Refseq	NM_000605
Protein Refseq	NP_000596

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MIM	147562
UniProt ID	P01563

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