

Overview

Synonyms	Leukocyte interferon, B cell interferon, Type I interferon, IFNA2, IFN- α 2a.
Description	Interferon-Alpha 2a (IFN-Alpha 2a), Human produced by leukocytes is a member of Interferon family. IFN- α is mainly involved in innate immune response against a broad range of viral infections. IFN- α 2 has three acid stable forms (a,b,c) signaling through IFNAR2. IFN- α 2a shares 99.4% , 98.8% aa sequence identity with IFN- α 2b and 2c respectively. IFN- α contains four highly conserved cysteine residues which form two disulfide bonds, one of which is necessary for biological activity.
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 0.1 ng/ml, measured by a cytotoxicity assay using TF-1 Cells, corresponding to a specific activity of > 1.0 \times 10 ⁷ units/mg.
Sequence	CDLPQTHSLG SRRTLMLLAQ MRKISLFSC L KDRHDFGFPQ EEFGNQFQKA ETIPVLHEMI QQIFNLFSTK DSSAAWDETL LDKFYTELYQ QLNDLEACVI QGVGVTTETPL MKEDSILAVR KYFQRITLYL KEKKYSPCAW EVVRAEIMRS FSLSTNLQES LRSKE

Properties

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

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