

**Recombinant Human Interferon-alpha2a
(rhIFN- α 2a)**

Catalog #106-03

Description

IFN- α s are proteins secreted by leukocyte. They are mainly involved in innate immune response against viral infection. The IFN- α family has 13 subtypes and 23 different variants. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. All IFN- α subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN-alpha subtypes differ in their sequences at only one or two positions. IFN- α 2b differs from IFN- α 2a by a single amino acid (the substitution of arginine for lysine at position 23), which makes up a potentially and clinically relevant difference, involving its immunogenicity.

Specifications

Synonyms:	Interferon-alpha2a, IFN- α 2a
AA Sequence:	SCDLPQTHSL GSRRTLMLLA QMRKISLFSC LKDRHDFGFP QEEFGNQFQK AETIPVLHEM IQQIFNLFST KDSSAAWDET LLDKFYTELY QQLNDLEACV IQGVGVTEPT LMKEDSILAV RKYFQRITLY LKEKKYSPCA WEVVRAEIMR SFSLSSTNLQE SLRSKE
Source:	<i>Escherichia coli</i>
Molecular Weight:	19.2 kDa, a single non-glycosylated polypeptide chain containing 166 amino acids
Purity	> 95%
Physical Appearance:	White lyophilized powder.
Endotoxin:	<0.1 ng/ μ g of protein (<1 EU/ μ g)

Formulation

Lyophilized from a 0.2 μ m filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

Reconstitution

Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Shipping and Storage

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.

Usage

rhIFN- α 2a is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.