Recombinant Human Interferon-alpha1a (rHuIFN-α1a)

PrimeGene Technical Data Sheet

Catalog Number:	106-01
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 19.5 kDa, a single non-glycosylated polypeptide chain containing 167 amino acids.
Quantity:	20μg/100μg/1000μg
AA Sequence:	MCDLPETHSL DNRRTLMLLA QMSRISPSSC LMDRHDFGFP QEEFDGNQFQ KAPAISVLHE LIQQIFNLFT TKDSSAAWDE DLLDKFCTEL YQQLNDLEAC VMQEERVGET PLMNADSILA VKKYFRRITL YLTEKKYSPC AWEVVRAEIM RSLSLSTNLQ ERLRRKE
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The specific activity determined by an anti-viral assay is no less than 1.0×10^8 IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.4, containing 3 % Mannitol, 5 % Trehalose, 0.05 % Tween-80.
Endotoxin:	Less than 0.1 EU/μg of rHuIFN-α1a as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.

Human Interferon-alpha1a

Interferon alpha-1, also named interferon alpha-D, is belonging to the type I interferon family and is encoded by the IFNA1gene in humans. Interferon alpha-1 is expressed in peripheral blood leukocytes and lymphoblastoid cells. IFNα-1 contains four highly conserved cysteine residues which form two disulfide bonds, one of which is necessary for biological activity. It plays an important role in inducing non-specific resistance against a broad range of viral infections, and also affects cell proliferation and modulates immune responses.

IFNα-1a and IFNα-1b are two forms of interferon alpha-1 except for the substitution of alanine for valine at position 137. Interferon-alpha represents a group of related but distinct proteins that share over 95 % amino acid sequence homology.

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