Animal-Free IFN-alpha 1a/IFNA1 Protein, Human (His)

Cat. No.:	HY-P700089AF
Synonyms:	Leukocyte Interferon; IFNA1; B cell Interferon; Type I Interferon; Interferon alpha-1/13; IFN-alpha-1/13; LeIF D; IFNA1a; IFNA13
Species:	Human
Source:	E. coli
Accession:	P01562 (C24-E189)
Gene ID:	3439
Molecular Weight:	Approximately 20.19 kDa

PROPERTIES

AA Sequence	C D L P E T H S L D N R R T L M L L A Q M S R I S P S S C L M D R H D F G F P Q E E F D G N Q F Q K A P A I S V L H E L I Q Q I F N L F T T K D S S A A W D E D L L D K F C T E L Y Q Q L N D L E A C V M Q E E R V G E T P L M N A D S I L A V K K Y F R R I T L Y L T E K K Y S P C A W E V V R A E I M R S L S L S T N L Q E R L R R K E
Biological Activity	Measure by its ability to inhibit IL-8 secretion in human PBMCs in the presence of LPS. The ED_{50} for this effect is <1.12 μg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 μg of the protein by the LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	IFN-alpha 1a/IFNA1 Protein, originating from macrophages, exhibits potent antiviral activities. Its key function lies in the stimulation of two critical enzymes—a protein kinase and an oligoadenylate synthetase. This intricate molecular response, orchestrated by IFN-alpha 13, plays a crucial role in fortifying the host's immune defenses against viral threats.

Caution: Product has not been fully validated for medical applications. For research use only.

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