

IFN-alpha 21 Recombinant Protein | IFNA21 recombinant protein

Recombinant Human IFN-alpha 21 Protein

CATALOG #
AAA283388

HOST
HEK293 cells

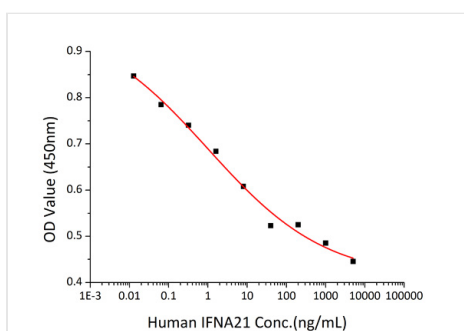
PRODUCT SYNONYMS

IFN-alpha 21; Recombinant Human IFN-alpha 21 Protein; IFNA21; IFNalpha F; IFN-alpha F; IFN-alpha-21; IFN-alpha; interferon alpha-21; Interferon alpha-F; interferon; alpha 21; LeIF F; leukocyte interferon protein; MGC126687; MGC126689; IFNA21 recombinant protein

PRODUCT SPECIFICATIONS

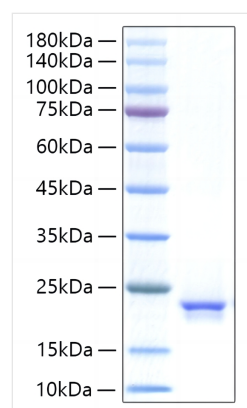
Host	HEK293 cells
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH7.4.
Sequence	CDLPQTHSLG NRRALILLAQ MGRISPFSC LDRHDFGFPQ EEFDGNQFQK AQAISVLHEM IQQTFNLFST KDSSATWEQS LLEKFSTELN QQLNDLEACV IQEVGVEETP LMNVDSILAV KKYFQRITLY LTEKKYSPCA WEVVRAEIMR SFSLSKIFQE RLRRKE
Species	Human
Tag	C-His
Endotoxin	<0.01EU/ug of the protein by LAL method.
Bio-Activity	Measured in a cell cytotoxicity assay using TF-1 cells. The ED ₅₀ for this effect is 0.50?1.98ng/mL, corresponding to a specific activity of 5.05×10 ⁵ ~2.00×10 ⁶ units/mg.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



Application Data

Recombinant Human IFN-alpha 21/IFNA21 Protein cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 0.50?1.98 ng/mL, corresponding to a specific activity of 5.05×10⁵~2.00×10⁶ units/mg.



SDS-PAGE

Recombinant Human IFN-alpha 21/IFNA21 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-25 KD.

ADDITIONAL INFORMATION

Related Product Information for IFNA21 recombinant protein	Interferons (IFN) are a family of cytokines with potent antiviral, anti-proliferative and immunomodulatory properties, classified based on their binding specificity to cell surface receptors. Human IFNA2 was originally cloned in the early '80s and now more than a dozen closely related IFN alpha subtypes have been identified in both the human and mouse genome, each sharing about 80% amino acid (aa) sequence homology. Structurally, type I IFNs belong to the class of five helicalbundle cytokines, with the IFNA subtypes containing 2 conserved disulfide bonds. There is not a mouse homolog for IFNA21, but mature human IFNA21 is identical to chimpanzee IFNA21. The type I IFNs bind to the interferon alpha receptor (IFNAR), which consists of two subunits: IFNAR1 (alpha -subunit) and IFNAR2 (beta -subunit). Individual IFNA subtypes are known to display unique efficacies to viral protection, with IFNA21 displaying intermediate activity inducing interferon stimulating genes. Further, human IFNA21 has shown weak anti-viral activity against viruses such as metapneumovirus.
Product Categories/Family for IFNA21 recombinant protein	Cytokines & Cytokine receptors; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	169791013
NCBI GeneID	3452
NCBI Accession #	NP_002166.2
NCBI GenBank Nucleotide #	NM_002175.2
UniProt Accession #	P01568; Q14608; Q5VWD1; Q7M4Q4
UniProt Protein Name	Interferon alpha-21
UniProt Gene Name	IFNA21
UniProt Synonym Gene Names	IFN-alpha-21; LeIF F

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.