

IFN-alpha H2/IFNA14 Recombinant Protein | IFNA14 recombinant protein

Recombinant Human IFN-alpha H2/IFNA14 Protein

CATALOG # AAA283387	HOST HEK293 cells
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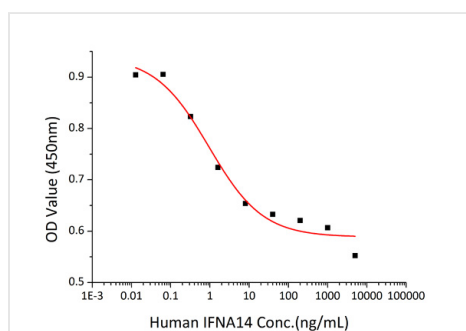
PRODUCT SYNONYMS

IFN-alpha H2/IFNA14; Recombinant Human IFN-alpha H2/IFNA14 Protein; Interferon alpha-14; IFN-alpha-14; Interferon alpha-H; LeIF H; Interferon lambda-2-H; IFNA14; IFNA14 recombinant protein

PRODUCT SPECIFICATIONS

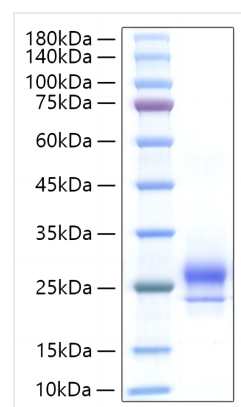
Host	HEK293 cells
Purity/Purification	>95% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH7.4.
Sequence	CNLSQTHSLN NRRTLMLMAQ MRRISPFSC LKDRHDFEFPQ EEFDGNQFQK AQAISVLHEM MQQTFNLFST KNSSAAWDET LLEKFYIELF QQMNDLEACV IQEVGVEETP LMNEDSILAV KKYFQRITLY LMEKKYSPCA WEVVRAEIMR SLSFSTNLQK RLRRKD
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 0.47?1.88ng/mL, corresponding to a specific activity of 5.32×10 ⁵ ~2.13×10 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 H2/IFNA14 was measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 0.47?1.88 ng/mL, corresponding to a specific activity of 5.32×10⁵~2.13×10⁶ units/mg.



SDS-PAGE

Recombinant Human IFN-alpha H2/IFNA14 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-30 kDa.

ADDITIONAL INFORMATION

Related Product Information for IFNA14 recombinant protein	Interferons (IFN) are a family of cytokines with potent antiviral, antiproliferative 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. The extracellular domain (ECD) of mature human IFNA14, shares 58% aa sequence identity with mouse IFNA14. The type I IFNs bind to the interferon alpha receptor (IFNAR), which consists of two subunits: IFNAR1 (alphasubunit) and IFNAR2 (beta-subunit). Individual IFNA subtypes are known to display unique efficacies to viral protection, and IFNA14 has been shown to be a strong inducer of IFN-stimulated genes and anti-viral protection. IFNA14 has been shown to be potent against HIV-1 by upregulating the transcription of two intrinsic restriction factors with well-established anti-HIV-1 activity, MX2 and tetherin.
Product Categories/Family for IFNA14 recombinant protein	Cytokines & Cytokine receptors; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	170763491
NCBI GeneID	3448
NCBI Accession #	NP_002163.2
NCBI GenBank Nucleotide #	NM_002172.2
UniProt Accession #	P01570; Q5VZ56; Q7M4S1
UniProt Protein Name	Interferon alpha-14
UniProt Gene Name	IFNA14
UniProt Synonym Gene Names	IFN-alpha-14; LeIF H
UniProt Entry Name	IFN14_HUMAN

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.