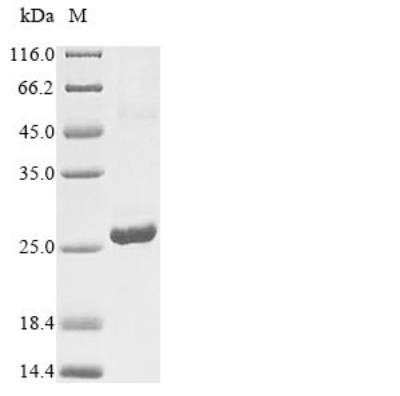
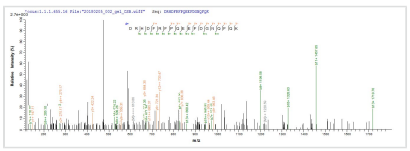
Recombinant Human Interferon alpha-6 (IFNA6)

Product Code	CSB-EP011042HU
Relevance	Produced by macrophages, IFN-alpha have antiviral activities. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase.
Abbreviation	Recombinant Human IFNA6 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P05013
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SLDCDLPQTHSLGHRRTMMLLAQMRRISLFSCLKDRHDFRFPQEEFDGNQFQKAEAISVLHEVIQQTFNLFSTKDSSVAWDERLLDKLYTELYQQLNDLEACVMQEVWVGGTPLMNEDSILAVRKYFQRITLYLTEKKYSPCAWEVVRAEIMRSFSSSRNLQERLRRKE
Research Area	Cancer
Source	E.coli
Target Names	IFNA6
Protein Names	Interferon alpha-54 Interferon alpha-K Short name: LeIF K
Expression Region	21-189aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	25.1 kDa
Protein Length	Full Length of Mature Protein

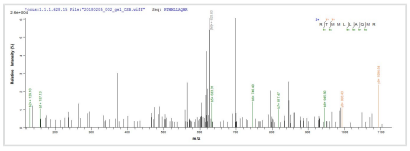
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP011042HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) IFNA6.



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Description

The region for expressing recombinant Human IFNA6 contains amino acids 21-189. The expected molecular weight for the IFNA6 protein is calculated to be 25.1 kDa. This protein is generated in a e.coli-based system. The IFNA6 gene fragment has been modified by fusing the N-terminal 10xHis tag and C-terminal Myc tag, providing convenience in detecting and purifying the recombinant IFNA6 protein during the following stages.

Human interferon alpha-6 (IFNA6) belongs to the interferon alpha family, a group of cytokines crucial for the antiviral immune response. Produced by various immune cells, particularly leukocytes, IFNA6 plays a pivotal role in inhibiting viral replication and spread by inducing the expression of antiviral proteins within infected cells. Additionally, IFNA6 contributes to the activation of immune cells, enhancing the overall antiviral defense. Research on IFNA6 spans virology, immunology, and clinical medicine, exploring its potential therapeutic applications in treating viral infections, certain cancers, and autoimmune diseases. Understanding the molecular mechanisms of IFNA6 provides insights into the intricate interplay between the immune system and pathogens.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
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