

Recombinant Human IFNA1 Protein

Catalog No	RP00011	Category	Protein
Description	Recombinant Human IFNA1 Protein is produced by <i>E. coli</i> expression system. The target protein is expressed with sequence (Cys24-Glu189 (Gln114Ala)) of human IFNA1 (Accession # NP_076918.1) fused with an initial Met at the N-terminus and a 6xHis tag at the C-terminus.		
Bio-Activity	Measured in antiviral assays using WISH cells infected with vesicular stomatitis virus. The ED ₅₀ for this effect is 40-200pg/mL.		

Sequence Information

Species	Human	Gene ID	3439
Tags	6xHis tag at the C-terminus	Swiss Prot	P01562
Synonyms	IFL;IFN;IFN-ALPHA;IFN-alphaD;IFNA13;IFNA@		
AA Sequence	CDLPETHSLDNRRTLMLLAQMSRISPSSCLMDRHDFGFPQEEFDGNQFQKAPAVISLHEL IQQIFNLFTTKDSSAAWDEDLLDKFCTELYAQLNDLEACVMQEERVGETPLMNADSILAV KKYFRRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQERLRRKE		

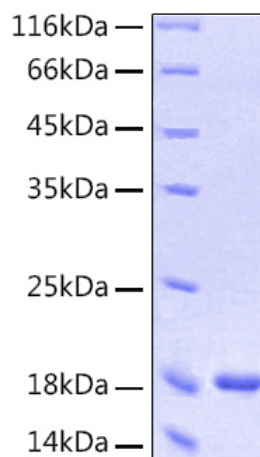
Product information

Source	<i>E. coli</i>
Purity	> 97% by SDS-PAGE.
Endotoxin	< 0.1 EU/μg of the protein by LAL method.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Background

IFNA1, also known as IFN-alpha and IFNA, belongs to the alpha/beta interferon family. Interferons(IFNs) are proteins made and released by host cells in response to the presence of pathogens such as viruses, bacteria, parasites or tumor cells. Leukocyte interferon is produced predominantly by B lymphocytes. Immune interferon is produced by mitogen- or antigen-stimulated T lymphocytes. IFNA1 is produced by macrophages and has both anti-viral and immunomodulatory activities on target cells.

SDS-PAGE



Bioactivity

Recombinant Human IFNA1 was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 18 kDa.