

Product datasheet

Recombinant human Ifnb1 protein (Active) ab242252

1 Image

Description

Product name	Recombinant human Ifnb1 protein (Active)	
Biological activity	Fully biologically active when compared to standard. The specific activity determined by an anti-viral assay is no less than 3.0×10^7 IU/mg.	
Purity	> 95 % SDS-PAGE.	
Endotoxin level	< 1.000 Eu/ μ g	
Expression system	Escherichia coli	
Accession	P01574	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MSYNLLGFLQRSSNFQCQKLLWQLNGRLEYCLKDRMNF IPEEIKQLQQF QKEDAALTYEMLQNIFAIFRQDSSSTGWNETIVENLLANVY HQINHLKT VLEEKLEKEDFTRGKLMSSLHLKRYGRILHYLKAKEYSHC AWTIVRVEILRNIFYFINRLTGYLRN	
Predicted molecular weight	20 kDa	
Amino acids	22 to 187	
Additional sequence information	Full length mature chain without signal peptide.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab242252** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	HPLC
	Functional Studies
	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituents: PBS, 2% Human serum albumin, 3% Mannitol

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at = -20 °C. Further dilutions should be made in appropriate buffered solutions.

General Info

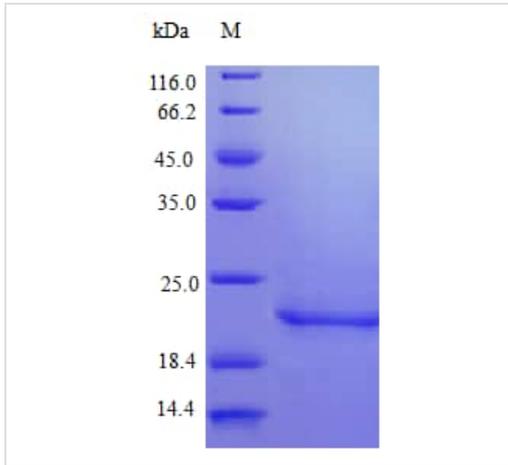
Relevance

The mammalian type I Interferons (IFN1) are produced in response to viral infection and other inducers. They are divided into alpha and beta subtypes leukocytes and fibroblasts reactivity. The human IFN alphas are encoded by a family of at least 15 different genes, while IFN beta is the unique member of its subtype. There is approximately 50% amino acid homology between the alpha and beta subtypes. Both IFN subtypes are pleiotropic cytokines and have a similar range of biological activities. Differences between alpha subtypes, and between IFN alpha and betas, are in potency and cell type specific activities. In particular, IFN beta elicits a markedly higher antiproliferation response in some cell types such as, embryonal carcinoma, melanoma and melanocytes than do IFN alphas. Higher potency of IFN beta in treatment of multiple sclerosis and certain cancers has been observed. Type I IFNs signal through binding to a common cell surface receptor. Two chains of the receptor, IFNAR1 and IFNAR2, have been identified. Both chains are necessary for function and in the absence of either there is neither high affinity binding nor biological activity. The intracellular portions of the receptor subunits are bound by tyrosine kinases, Jak1 and Tyk2, members of the Janus kinase family. Upon ligand binding these kinases are activated and phosphorylate members of the STAT family of transcription factors, as well as IFNAR1 and 2.

Cellular localization

Secreted

Images



SDS-PAGE analysis of ab242252.

SDS-PAGE - Recombinant human lfnb1 protein
(Active) (ab242252)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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