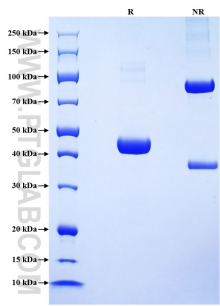


# Recombinant Human IFNA17 protein (rFc Tag)(HPLC verified)

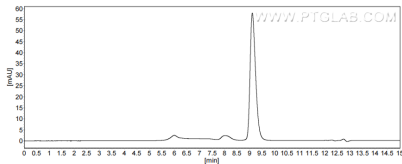
Catalog Number: Eg3088

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Information        | <b>Species:</b><br>Human <b>Purity:</b><br>>90 %, SDS-PAGE<br> >90 %, SEC-HPLC <b>Tag:</b><br>rFc Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Technical Specifications | <b>Purity:</b><br>>90 %, SDS-PAGE<br> >90 %, SEC-HPLC<br><b>Endotoxin Level:</b><br><0.1 EU/ µg protein, LAL method<br><b>Source:</b><br>HEK293-derived Human IFNA17 protein Cys24-Asp189 (Accession# P01571) with a rabbit IgG Fc tag at the C-terminus.<br><b>GeneID:</b><br>3451<br><b>Accession:</b><br>P01571<br><b>Predicted Molecular Mass:</b><br>45.3 kDa<br><b>SDS-PAGE:</b><br>40-47 kDa, reducing (R) conditions<br><b>Formulation:</b><br>Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Biological Activity      | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Storage and Shipping     | <b>Storage:</b><br>It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> <li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li> <li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li> </ul> <b>Shipping:</b><br>The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reconstitution           | Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Background               | <p>Interferons (IFNs) are a family of cytokines with potent antiviral, antiproliferative, and immunomodulatory properties. There is no mouse homolog for IFNA17, but mature human IFNA17 shares 58% amino acid sequence identity with chimpanzee IFNA17. 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. IFNA17 has been shown to be potent against HIV-1 activity. Human IFNA17 is the only IFNA subtype identified with antiviral activity but a reduced ability to activate NK cells. A mutation in IFNA17, Ile184Arg, is associated with an increased risk for cervical cancer. In summary, IFNA17 is a type I interferon with unique antiviral and immunomodulatory properties. It plays a significant role in the immune response and has been implicated in the pathogenesis of certain diseases, including prostate cancer and cervical cancer.</p> |
| References               | <ol style="list-style-type: none"> <li>1. Pestka S, et al. (1987) Annu Rev Biochem. 56:727.</li> <li>2. Goeddel, D.V. et al. (1980) Nature 287:411.</li> <li>3. Ortaldo, J.R. et al. (1984) PNAS 81:4926.</li> <li>4. Kim, J.W. et al. (2003) Cancer Lett. 189:183.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Synonyms                 | IFN-alpha-17, Interferon alpha 17, Interferon alpha-17, Interferon alpha-88, Interferon alpha-I'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Selected Validation Data



Purity of Recombinant Human IFNA17 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human IFNA17 was greater than 90% as determined by SEC-HPLC.