

Product datasheet for TP321091M

Interferon alpha 2 (IFNA2) (NM_000605) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human interferon, alpha 2 (IFNA2), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC221091 representing NM_000605 Red=Cloning site Green=Tags(s) |
| | MALTFALLVALLVLSCKSSCSVGCGLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDFGFPQEEFGNQF QKAETIPVLHEMIQQIFNLFSTKDSAAWDETLDDKFKYTELYQQLNDLEACVIQGVGTETPLMKEDSIL AVRKYFQRITLYLKEKKYSPCAWEVWRAEIMRSFSLSTNLQESLSKE |
| | TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 21.4 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_000596 |
| Locus ID: | 3440 |
| UniProt ID: | P01563 |
| RefSeq Size: | 1142 |



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Cytogenetics: 9p21.3

RefSeq ORF: 564

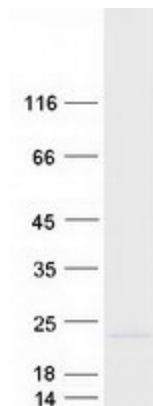
Synonyms: IFN-alpha-2; IFN-alphaA; IFNA; IFNA2B; IeIF A

Summary: This gene is a member of the alpha interferon gene cluster on chromosome 9. The encoded cytokine is a member of the type I interferon family that is produced in response to viral infection as a key part of the innate immune response with potent antiviral, antiproliferative and immunomodulatory properties. This cytokine, like other type I interferons, binds a plasma membrane receptor made of IFNAR1 and IFNAR2 that is ubiquitously expressed, and thus is able to act on virtually all body cells. The encoded protein is effective in reducing the symptoms and duration of the common cold and in treating many types of cancer, including some hematological malignancies and solid tumors. A deficiency of type I interferon in the blood is thought to be a hallmark of severe COVID-19 and may provide a rationale for a combined therapeutic approach. [provided by RefSeq, Aug 2020]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Antigen processing and presentation, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, Regulation of autophagy, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway

Product images:



Coomassie blue staining of purified IFNA2 protein (Cat# [TP321091]). The protein was produced from HEK293T cells transfected with IFNA2 cDNA clone (Cat# [RC221091]) using MegaTran 2.0 (Cat# [TT210002]).