

Product datasheet for **TP723881**

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

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interferon, alpha 2 (IFNA2)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Human IFN-α2, the region of Cys24-Glu188, from gene Accession# NM_000605
Tag:	Tag Free
Predicted MW:	19.4 kDa
Concentration:	lot specific
Purity:	>95%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS, pH 7.3
Bioactivity:	Recombinant human IFN-α2 induces CCL2 (MCP-1) production in U937 cells in a dose dependent manner. The ED50 of this effect is 0.02-0.14 ng/mL.
Endotoxin:	Less than 0.01 ng per µg protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_000596
Locus ID:	3440
UniProt ID:	P01563
RefSeq Size:	1142
Cytogenetics:	9p21.3
RefSeq ORF:	564
Synonyms:	IFN-alpha-2; IFN-alphaA; IFNA; IFNA2B; IeIF A


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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:
