

## Product datasheet for PH321091

### Interferon alpha 2 (IFNA2) (NM\_000605) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	IFNA2 MS Standard C13 and N15-labeled recombinant protein (NP_000596)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221091
Predicted MW:	21.4 kDa
Protein Sequence:	>RC221091 representing NM_000605 Red=Cloning site Green=Tags(s)  MALT FALLVALLVLSCKSSCSVGC DLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDFGFPQEEFGNQF QKAETIPVLHEMIQQIFNLFSTKDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGVTTETPLMKEDSIL AVRKYFQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLSRKE  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_000596</a>
RefSeq Size:	1142
RefSeq ORF:	564
Synonyms:	IFN-alpha-2; IFN-alphaA; IFNA; IFNA2B; IeIF A
Locus ID:	3440
UniProt ID:	<a href="#">P01563</a>



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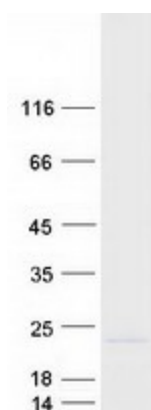
**Cytogenetics:** 9p21.3

**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]).