

## Recombinant Human IFN $\alpha$ 2 Protein(His Tag)

Catalog Number: PDEH101133

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

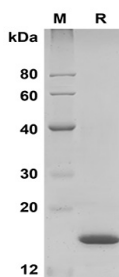
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human IFN $\alpha$ 2 protein Cys24-Glu188, with an N-terminal His
<b>Calculated MW</b>	18.0 kDa
<b>Observed MW</b>	15 kDa
<b>Accession</b>	P01563
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 10 EU/mg of the protein as determined by the LAL method
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

### Data



SDS-PAGE analysis of Human IFN $\alpha$ 2 proteins, 2 $\mu$ g/lane of Recombinant Human IFN $\alpha$ 2 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 15 kDa

### Background

IFNA2 (Interferon Alpha 2) is a Protein Coding gene. This gene is a member of the alpha interferon gene cluster on chromosome 9. The encoded protein is a cytokine produced in response to viral infection. Type I Interferons (IFNs) are well-known cytokines that exert antiviral activity, antitumor activity, and immunomodulatory effects. Interferon tau (IFN T), a type I IFN similar to alpha IFNs (IFNA), is the pregnancy recognition signal produced by the ruminant conceptus. Among the IFN- $\alpha$  genes, a total of 28 different sequence variants have been described. The three principal subtypes of IFN $\alpha$ -2 are designated  $\alpha$ -2a,  $\alpha$ -2b, and  $\alpha$ -2c. IFN $\alpha$ -2b is being the predominant allele while IFN $\alpha$ -2a is less predominant and IFN $\alpha$ -2c only a minor allelic variant.

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