

Recombinant Human IFNA2 Protein(Gst Tag)

Catalog Number: PDEH100538

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

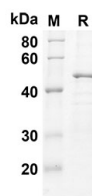
Description

| | |
|--------------|---|
| Species | Human |
| Source | E.coli-derived Human IFNA2 protein Cys24-Glu188, with an N-terminal GST |
| Mol_Mass | 44 kDa |
| Accession | P01563 |
| Bio-activity | Not validated for activity |

Properties

| | |
|----------------|--|
| Purity | > 90% as determined by reducing SDS-PAGE. |
| Endotoxin | < 10 EU/mg of the protein as determined by the LAL method |
| Storage | 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. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol. |
| Reconstitution | 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 IFNA2 proteins, 2 µg/lane of Recombinant Human IFNA2 proteins was resolved with an SDS-PAGE under reducing conditions, showing bands at 44 KD

Background

For Research Use Only

Interferon-alpha 2 (IFN alpha-2) is one of 14 subtypes within the IFN-alpha class of Type I Interferons. The members of the IFN-alpha class, also known as alpha leukocyte interferons, encompass a group of distinct but closely related proteins which share approximately 80% amino acid (aa) sequence identity and have a similar globular structure composed of five alpha-helices. IFN-alpha class members signal through a common cell surface receptor complex composed of IFN-alpha R2 and IFN-alpha R1 subunits. As the first highly active IFN to be cloned and produced, IFN alpha-2 has become the prototypic IFN for academic and pharmaceutical research. The mature extracellular domain (ECD) of mouse IFN alpha-2 shares 60% and 83% aa sequence identity with human and rat, respectively. Murine IFN-alpha 2 can eliminate cardiac viral load and protect cardiomyocytes from injury in animals infected with coxsackievirus B3 (CVB3). IFN alpha-2 derived mutants with reduced IFNR2 binding inhibited HIV replication and mutants with more IFNAR1 binding potentiated antiviral activity.