Recombinant Human IFNA2 Protein (Trx Tag)

RPES8048

Product Information

Product SKU:	RPES8048	**Expression Host**:	E.coli	**Size**:	20µg
Tag:	N-Trx	**Reactivity**:	Human	**Accession**:	P01563

Additional Information

Calculated MW:	38 kDa	**Observed MW:**	33 kDa
Sequence:	Cys24-Glu188		

Protein Information

Background: 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.

Synonyms: Alpha 2a interferon, IFN alpha 2b, IFN-alpha-2, IFNA, Ifna2, IFNA2, INFA2, Interferon alpha 2, Interferon alpha A, Interferon alpha-2, Interferon alpha-A, LeIF A, LeIFA

Endotoxin: < 10 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

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Bio-Activity: Not validated for activity

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.

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