

Recombinant mouse IFNA2

Catalog No: #AG0052

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Description

Product Name	Recombinant mouse IFNA2
Host Species	HEK293
Purification	> 95% by Tris-Bis PAGE; > 95% by SEC-HPLC
Immunogen Description	Cys24-Glu191
Target Name	IFNA2
Other Names	Mouse Ifa2 Protein
Accession No.	Uniprot:P01573Gene ID:15965
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GeneID	15965
Target Species	mouse
Calculated MW	19.4 KDa
Tag Info	additional amino acid free
Formulation	0.22 µm filtered solution of PBS, pH 7.4.
Storage	Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.

Background

Interferon-alpha 2 (IFN alpha -2) is one of 14 subtypes within the IFN-alpha class of Type I Interferons (1). 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 (1,2,3,4). IFN-alpha class members signal through a common cell surface receptor complex composed of IFN-alpha R2 and IFN-alpha R1 subunits (3). As the first highly active IFN to be cloned and produced, IFN alpha -2 has become the prototypic IFN for academic and pharmaceutical research (2). 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) (5). IFN alpha -2 derived mutants with reduced IFNR2 binding inhibited HIV replication and mutants with more IFNAR1 binding potentiated antiviral activity (6).

Note: This product is for in vitro research use only