

Interferon alpha 2/IFNA2 Protein, Mouse, Recombinant

General Information

Synonyms:	interferon, alpha 2;Ifa2;interferon, α 2;Interferon α 2/IFNA2
Protein Construction:	A DNA sequence encoding the mouse Ifna2 (NP_034633.2) (Cys24-Glu190) was expressed. Predicted N terminal: Cys 24
Species:	Mouse
Expression Host:	P. pastoris (Yeast)
Accession:	B1AYH7
Molecular Weight:	19.4 kDa (predicted)

QC Testing

Biological Activity:	Measured in antiviral assays using L929 cells infected with vesicular stomatitisvirus (VSV). The ED50 for this effect is 0.15-0.9 ng/mL.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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 (IFNT), a type I IFN similar to alpha IFNs (IFNA), is the pregnancy recognition signal produced by the ruminant conceptus. Among the IFN- α genes, a total of 28 different sequence variants have been described. The three

principal subtypes of IFN α -2 are designated α -2a, α -2b, and α -2c. IFN α -2b is being the predominant allele while IFN α -2a is less predominant and IFN α -2c only a minor allelic variant.

Reference

Wang,et al.(2004) Fever of recombinant human interferon-alpha is mediated by opioid domain interaction with opioid receptor inducing prostaglandin E2. J Neuroimmunol. 156(1-2): 107-12.

Groopman JE,et al.(1984) Recombinant alpha-2 interferon therapy for Kaposi's sarcoma associated with the acquired immunodeficiency syndrome. Ann Intern Med. 100(5): 671-6.

Krueger JM,et al.(1987) Interferon alpha-2 enhances slow-wave sleep in rabbits. Int J Immunopharmacol. 9(1): 23-30.

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