

Interferon alpha 14/IFNA14 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	interferon, alpha 14; OTTMUSG00000007662; interferon, α 14
Protein Construction:	A DNA sequence encoding the mouse IFNA14 (NP_996858.1)(Cys24-Lys189) was expressed with a C-terminal polyhistidine tag. Predicted N terminal: Cys 24
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q810G3
Molecular Weight:	20.5 kDa (predicted); 20 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured in antiviral assay using L929 cells infected with vesicular stomatitisvirus (VSV). The ED50 for this effect is typically 5-40 pg/mL.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
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:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Reference

- Lau JY, et al. (1993) Discrepancy between biochemical and virological responses to interferon-alpha in chronic hepatitis C. *Lancet*. 342(8881): 1208-9.
- Gutterman JU. Cytokine therapeutics: lessons from interferon alpha. *Proc Natl Acad Sci U S A*. 91(4): 1198-205.
- Kessler DS, et al. (1990) Interferon-alpha regulates nuclear translocation and DNA-binding affinity of ISGF3, a multimeric transcriptional activator. *Genes Dev*. 4(10): 1753-65.

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