

## IFN-alpha 13/IFNA13 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	IFN- $\alpha$ 13;interferon, alpha 13;interferon, $\alpha$ 13;RP23-139P14.1
Protein Construction:	A DNA sequence encoding the mouse IFNA13 (Q80SU4) (Met1-Glu189) was expressed with a C-terminal polyhistidine tag. Predicted N terminal: Cys 24
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q80SU4
Molecular Weight:	20.5 kDa (predicted); 26-31 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 10-80 pg/mL.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ 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

- Mahmutovic S, et al.. (2004) Significance of the interferon (IFN) in the therapy. *Bosn J Basic Med Sci.* 4(4): 42-4.
- 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.

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