Data Sheet (Cat.No.TMPY-03375)

TargetMol

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

General Information

Synonyms: IFNA13;interferon, α13;interferon, alpha 13;IFN-α 13

Protein Construction: A DNA sequence encoding the cynomolgus IFNA13 (G7NFW4) (Met1-Glu190) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Cys 25

Species: Cynomolgus

Expression Host: HEK293 Cells

Accession: G7NFW4

Molecular Weight: 20.8 kDa (predicted); 19 kDa (reducing conditions)

QC Testing

Biological Activity: Measured in antiviral assay using WISH human amnion cells infected with vesicular stomatitisvirus (VSV). The ED50 for this effect is typically 0.02-0.2 ng/mL.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 μm 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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