Data Sheet (Cat.No.TMPY-07119)

TargetMol

IFN-alpha 2b/IFNA2 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms: IFNA;IFN-alpha-2;IFNA2C;IFN-alphaA;IFNA2B;leIF A;IFNA2A

Protein Construction: A DNA sequence encoding the Human Interferon alpha 2 / IFNA2 (P01563-1) (Met1-Glu188) was expressed with a C-terminal polyhistidine tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.

Species: Human

Expression Host: HEK293 Cells

Accession: P01563-1

Molecular Weight: 22.53 kDa (predicted); 25.1 kDa and 23.5 kDa (reducing contition, due to glycosylation)

QC Testing

Biological Activity: Immobilized IFN-alpha 2b/IFNA2 Protein, Human, Recombinant (His & Avi), Biotinylated (Cat#TMPY-07119) at 2 μg/mL (100 μl/well) on streptavidin precoated (2 μg/mL, 100 μL/well) can bind IFNAR2 Protein, Human, Recombinant (hFc) (Cat#TMPY-01640), the EC50 is 12-40 ng/mL.

Purity: ≥ 95% as determined by SDS-PAGE. ≥ 90% as determined by SEC-HPLC.

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

Formulation: Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:

Please refer to the lot-specific COA.

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.

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

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