Data Sheet (Cat.No.TMPJ-00746)

TargetMol

IFN-alpha 2b/IFNA2 Protein, Human, Recombinant

General Information

Synonyms:	IFNA2;Interferon α-2;Interferon α-A;Interferon Alpha-2;IFN-α-2;LeIF A;Interferon Alpha-A; IFN-Alpha-2;IFN α2b
Protein Construction:	Cys24-Glu188
Species:	Human
Expression Host:	E. coli
Accession:	P01563
Molecular Weight:	17 KDa (reducing condition)
AA Sequence:	Cys24-Glu188

QC Testing

Biological Activity:	1. Loaded Human IFNAR2-Fc on Protein A Biosensor, can bind Human IFN alpha2b with an affinity constant of 2.98 nM as determined in BLI assay. (Regularly tested) 2. Measured in antiviral assay using A549 human lung cancer cells infected with vesicular stomatitisvirus (VSV) The ED50 for this effect is 5 ng/mL. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.2.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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

At least 23 different variants of IFN-α are known. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. All IFN-α subtypes possess a common

conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN-α subtypes differ in their sequences by only one or two positions. Naturally occurring variants also include proteins that are truncated by 10 amino acids at the carboxyl-terminal end.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481