Data Sheet (Cat.No.TMPJ-00747)

Interferon alpha 2/IFNA2 Protein, Mouse, Recombinant (E. coli)

General Information

Synonyms:	IFN-Alpha-2;Interferon α-A;IFN α2;LeIF A;IFN-α-2;Interferon Alpha-2;IFNA2;Interferon Alpha-A;Interferon α-2
Protein Construction:	Cys24-Glu190
Species:	Mouse
Expression Host:	E. coli
Accession:	P01573
Molecular Weight:	16 KDa (reducing condition)
AA Sequence:	Cys24-Glu190

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
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 Histidine-HCl, 6% Sucrose, 4% Mannitol, 0.02% Tween 80 (w/v), pH 6.0.

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 Interferon-α are known. The individual proteins have molecular masses between 19-26 kD 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 at only one or two positions. Naturally occurring variants

also include proteins truncated by 10 amino acids at the carboxyl-terminal end.

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