

Recombinant Human Interferon-alpha1b

#R00002

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.

- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

IFN-αs are proteins secreted by leukocyte. They are mainly involved in innate immune response against viral infection. The IFN-α family has 13 subtypes and 23 different variants. 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-alpha subtypes differ in their sequences at only one or two positions. Naturally occurring variants also include proteins truncated by 10 amino acids at the carboxy-terminal end.

AA Sequence

MCDLPETHSLDNRRTLMLLAQMSRISPSSCLMDRHD
FGFPQEEFDGNQFQKAPAISVLHELIQQIFNLFTTKDS
SAAWDEDLLDKFCTELYQQLNDLEACVMQEERVGET

PLMNVDSILAVKKYFRRITLYLTEKKYSPCAWEVVRAE
IMRSLSLSTNLQERLRRKE

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Accession	P01562
GeneID	3439
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 19.5 kDa, a single non-glycosylated polypeptide chain containing 167 amino acids.
Purity	> 96 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The specific activity determined by an anti-viral assay is no less than 1.0×10^8 IU/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm

filtered solution in PBS, pH 7.4,
containing 4 % mannitol and 1 %
HSA.

Endotoxin

Less than 1 EU/μg of
rHuIFN-α1b as determined by
LAL method.
