

ChemWhot Recombinant Human Interferon-alpha2b, Ecoli. (rHuIFN-a2b, Ecoli.)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:

106-04E

Source:

Escherichia coli.

Molecular Weight:

Approximately 19.4 kDa, a single non-glycosylated polypeptide chain containing 166 amino acids.

Quantity:

20μg/100μg/1000μg

AA Sequence:

MCDLPQTHSL GSRRTLMLLA QMRRISLFSC LKDRHDFGFP QEEFGNQFQK AETIPVLHEM

IQQIFNLFST KDSSAAWDET LLDKFYTELY QQLNDLEACV IQGVGVTETP LMKEDSILAV

RKYFQRITLY LKEKKYSPCA WEVVRAEIMR SFSLSTNLQE SLRSKE

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. Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.

Formulation: Endotoxin:

Less than 1 EU/μg of rHuIFN-α2b, Ecoli. as determined by LAL method.

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 \leq -20 $\mathbb C$. Further dilutions should be made in appropriate buffered solutions.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

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.

Usage:

ChemWhat Limited in UK offers this branded product for research, development or further

evaluation purposes. NOT FOR HUMAN USE.

Human Interferon-alpha2b

IFN-αs are proteins secreted by leukocyte. They are mainly involved in innate immune response against viral infection. The IFNα 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.

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