

Interferon- β (IFN- β)

Human, Natural

Product No. **I5143****Description**

Interferon- β is known to affect many important cell mediated immune responses, including enhanced expression of MHC molecules, β_2 -microglobulin, tumor associated antigens, and cytokine receptors for tumor necrosis factor, interleukin-1, interleukin-2 and colony stimulating factors.¹ The product was produced in MG 63 osteosarcoma cells by superinduction².

Performance Characteristics

IFN- β activity is determined in a bioassay system against NIH/NIAID International Standard (Gb 23-902-531) by the inhibition of cytopathic effect in WISH cells challenged with vesicular stomatitis virus (VSV).

Product Information

Activity/vial: 100,000 units
Volume: 1 ml
Purity: > 90% by SDS-PAGE
Diluent: Phosphate buffered saline (PBS).
Carrier Protein: 0.1% Human serum albumin (HSA).
Sterility: Negative for bacteria, yeast, and fungi.
Endotoxin: <10 EU/ml

Reconstitution and Use

The contents of the vial may be further diluted in a solution containing 0.1% - 1% HSA or 1% - 10% serum in PBS or in tissue culture media. If aseptic technique is used, additional filtration should not be necessary and should be avoided due to possible adsorption of the material onto the filter membrane.

Storage

Store at -20°C . Prolonged storage of product or repeated freezing and thawing is **not** recommended and will result in decreased biological activity.

References

1. Volz, M., and Kirkpatrick, C., *Drugs*, **43**, 285 (1982).
2. VanDamme, N., and Billiau, A., *Meth. Enzymol.*, **78**, 101 (1981).

Potential Biohazard

Handle as if capable of transmitting infectious agents. Starting material tested and found negative for HBsAg and antibody to HIV.
Refer to material safety data sheet (MSDS).

1/98

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.

Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.

Please see reverse side of the invoice or packing slip.