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## Product Information

### Interferon from human leukocytes

Product Number **I4784**

Storage Temperature:  $-20^{\circ}\text{C}$  or below

#### Product Description

Human leukocyte interferon is a mixture of human interferon  $\alpha$  and human interferon  $\omega$ . Human leukocyte interferon is produced in peripheral blood leukocytes by induction with Sendai virus (produced in SPF chicken eggs). The molecular weights of human leukocyte interferon (IFN) corresponds to that of human interferon omega and interferon alpha subtypes (19,241-19,985).

Interferon has been used for treatment of hepatitis.

#### Reagent

Supplied as lyophilized powder. Contents:  $\sim 1 \times 10^6$  units/vial.

Concentration: After reconstitution with 1 mL deionized water, the concentration is  $\sim 1 \times 10^6$  units/mL.

#### Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

#### Storage/Stability

After receipt, store at  $-20^{\circ}\text{C}$  or below for retention of full activity. After reconstitution, aliquot and store at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . Do not store in a frost-free freezer. Avoid freezing and thawing.

#### Preparation and Instructions

Reconstitute with 1 mL deionized water, which will yield a concentration of  $1 \times 10^6$  units/mL.

After reconstitution, aliquot the contents into separate tubes so that freezing and thawing is kept to a minimum and store at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ .

#### Product Profile

*Assay used to measure bioactivity:*

Interferon was titrated with the use of the cytopathic effect inhibition assay.<sup>1,2</sup> In this antiviral assay for interferon,  $\sim 1$  unit/mL of interferon is the quantity necessary to produce a cytopathic effect of 50%. The units are determined with respect to the International Reference Standard for human interferon alpha A provided by the National Institutes of Health.<sup>3</sup> The unit of activity was measured on bovine MDBK cells with vesicular stomatitis virus (VSV).

Purity:  $\geq 95\%$

Endotoxin level: 0.06 units per vial by the LAL assay.

#### References

1. Rubinstien, S., et al., Convenient assay for interferons. *J. Virol.*, **37**, 755-758 (1981).
2. Famillitti, P.C., et al., A convenient and rapid cytopathic effect inhibition assay for interferon, in *Methods in Enzymology*, Vol. **78** (S. Pestka, ed.), Academic Press, New York, 387-394 (1981).
3. Pestka, S., Interferon standards and general abbreviations, in *Methods in Enzymology* (S. Pestka, ed.), Academic Press, New York, **119**, 14-23 (1986).

Kaa 06/06

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