

## Data sheet Recombinant rat interferon beta (IFN- $\beta$ )

**Cat. No.:** CT041

**Production:** By Chinese hamster ovary (CHO) cells transformed with the chromosomal gene encoding rat IFN- $\beta$ . The interferon is differentially glycosylated.

**Purification:** Dye-affinity and gel-exclusion chromatography.

**Purity:** > 90% pure

**Endotoxin:** < 1 EU/vial

**Packaging:** Lyophilized and vacuum-packed.

**Contents:** 3  $\mu\text{g}$ /vial ( $2 \times 10^5$  units/vial) (the exact amount is indicated on the vial)

**Buffer:** Prior to lyophilization: 0.2 ml PBS + 125 mM trehalose.

**Specificity:** Shows 10% bioactivity on human (HEp-2) and 20% on mouse (L-929) cells as compared to the homologous combination.

**Specific activity:**  $\geq 6 \times 10^7$  units/mg protein.

**Unit:** One unit is defined as the amount of interferon that inhibits 50% of the cytopathic effect of Vesicular stomatitis virus in monolayer cultures of Ratec cells grown in the wells of a 96-well microtiter plate. The unit is subsequently corrected by reference to a laboratory standard preparation.

**Sterility:** Membrane filtered (0.2  $\mu\text{m}$ ).

**Reconstitution:** Dissolve the contents of the vial by injection of 0.2 ml sterile distilled water.

**Stability:** Lyophilized product is stable for at least one year at  $-20^\circ\text{C}$ . After reconstitution, the contents can be best divided into small aliquots for single use and stored at  $-80^\circ\text{C}$ . After thawing, the cytokine is stable for at least three weeks at  $4^\circ\text{C}$ .

**Quantitation:** Protein concentration was deduced from the biological activity in an antiviral bioassay.

**References:** Beyer S. *et al.* 2009. J. Neuroimmunol. 213: 31  
Hadjilambreva, G. *et al.* 2005. J. Neurophysiol. 93: 843  
Ruuls, S.R. *et al.* 1996. J. Immunology 157: 5721  
Stadler, K. *et al.* 2014. Cereb. Cortex 24: 199  
Tiebosch I.A.C.W. *et al.* 2013. Neurocrit. Care 18: 96

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