

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

<b>Cat. No.:</b>	<b>CT041</b>
<b>Production:</b>	By Chinese hamster ovary (CHO) cells transformed with the chromosomal gene encoding rat IFN- $\beta$ . The interferon is differentially glycosylated.
<b>Purification:</b>	Dye-affinity and gel-exclusion chromatography.
<b>Purity:</b>	> 90% pure
<b>Endotoxin:</b>	< 0.1 EU/ $\mu$ g protein
<b>Packaging:</b>	Lyophilized and vacuum-packed.
<b>Contents:</b>	3 $\mu$ g/vial ( $2 \times 10^5$ units/vial) (the exact amount is indicated on the vial)
<b>Buffer:</b>	Prior to lyophilization: 0.2 ml PBS + 125 mM trehalose.
<b>Specificity:</b>	Shows 10% bioactivity on human (HEp-2) and 20% on mouse (L-929) cells as compared to the homologous combination.
<b>Specific activity:</b>	$\geq 6 \times 10^7$ units/mg protein.
<b>Unit:</b>	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.
<b>Sterility:</b>	Membrane filtered (0.2 $\mu$ m).
<b>Reconstitution:</b>	Dissolve the contents of the vial by injection of 0.2 ml sterile distilled water.
<b>Stability:</b>	Lyophilized product is stable for at least one year at -20°C. After reconstitution, the contents can be best divided into small aliquots for single use and stored at -80°C. After thawing, the cytokine is stable for at least three weeks at 4°C.
<b>Quantitation:</b>	Protein concentration was deduced from the biological activity in an antiviral bioassay.
<b>References:</b>	Beyer S. <i>et al.</i> 2009. J. Neuroimmunol. 213: 31 Hadjilambreva, G. <i>et al.</i> 2005. J. Neurophysiol. 93: 843 Ruuls, S.R. <i>et al.</i> 1996. J. Immunology 157: 5721 Stadler, K. <i>et al.</i> 2014. Cereb. Cortex 24: 199 Tiebosch I.A.C.W. <i>et al.</i> 2013. Neurocrit. Care 18: 96

