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Data sheet Recombinant rat interferon beta (IFN- β)

Cat. No.:	CT042
Production:	By Chinese hamster ovary (CHO) cells transformed with the chromosomal gene encoding rat IFN- β . 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:	15 μ g/vial (10^6 units/vial) (the exact amount is indicated on the vial)
Buffer:	Prior to lyophilization: 0.5 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 μ m).
Reconstitution:	Dissolve the contents of the vial by injection of 0.5 ml sterile distilled water.
Stability:	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.
Quantitation:	Protein concentration was deduced from the biological activity in an antiviral bioassay.
References:	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