

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

<b>Cat. No.:</b>	<b>CT046</b>
<b>Production:</b>	By Chinese hamster ovary (CHO) cells transformed with the chromosomal gene encoding rat IFN- $\gamma$ . Cells are cultured <i>in vitro</i> using serum-free medium.
<b>Purification:</b>	By monoclonal antibody affinity chromatography and gel exclusion chromatography.
<b>Purity:</b>	> 98% pure
<b>Endotoxin:</b>	$\leq$ 0.1 EU/vial
<b>Packaging:</b>	Lyophilized and vacuum-packed.
<b>Contents:</b>	150 $\mu$ g/vial (1.5x10 <sup>6</sup> 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>	Biologically active on rat and mouse cells to a similar degree but shows no bioactivity on human cells.
<b>Specific activity:</b>	10 <sup>7</sup> 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 R4ec 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>	Dijkema, R. <i>et al.</i> 1985. EMBO J. 4-3: 761-767 Floris, S. <i>et al.</i> 2002. J. Neuroimmun. 127: 69-79 Ioan-Facsinay, A. <i>et al.</i> 2002. Immunity 16: 391-402 van Vuuren, A.J. 2006. <i>et al.</i> 2006. J. Immunol. 176:5833-5838

