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Data sheet Recombinant mouse tumor necrosis factor alpha (TNF-α)

Cat. No.: CT305

Production:	By E.coli cells transformed with the cDNA gene encoding mouse TNF-α.
Purification:	Anion-exchange and gel-exclusion chromatography.
Purity:	> 95% pure
Endotoxin:	< 0.1 EU/µg protein
Packaging:	Lyophilized and vacuum-packed.
Contents:	100 µg/vial (10^6 units/vial)
Buffer:	Prior to lyophilization: 0.1 ml PBS + 125 mM trehalose.
Specificity:	Cytokine is biologically active on mouse and rat cells to a similar degree.
Specific activity:	≥ 10^7 units/mg protein.
Unit:	Bioactivity is determined in a cytotoxicity bioassay using WEHI 164 cells assuming that one unit of mouse TNF-α corresponds with 50 pg of pure TNF-α protein.
Sterility:	Membrane filtered (0.2 µm).
Reconstitution:	Dissolve the contents of the vial by injection of 0.1 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.