

## CERTIFICATE OF ANALYSIS

### Product Information

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Product Name:	Tumor Necrosis Factor-alpha (TNF- $\alpha$ ), Mouse
Cat. No.:	Z02918-20; Z02918-100; Z02918-1
Lot No.:	P50021801
Size:	20 $\mu$ g/vial; 100 $\mu$ g /vial; 1mg/vial
Storage Condition:	Lyophilized recombinant mouse Tumor Necrosis Factor-alpha (rmTNF- $\alpha$ ) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmTNF- $\alpha$ should be stable up to 1 week at 4°C or up to 2 months at -20°C.

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### Quality Control

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Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE)	> 95%	Conformed
Specific Activity	< 0.01ng/ml	0.001 ng/ml
Molecular Weight	17 $\pm$ 1.7 kDa	Conformed
Bacterial Endotoxin	< 1 EU/ $\mu$ g	Conformed

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### Caution:

For laboratory use only. Not for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188.

Certified by: zh.cui Date: 03/08/2018

Protein Department