

## CERTIFICATE OF ANALYSIS

### Product Information

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Product Name: TNF- $\alpha$ , Mouse  
Cat. No.: Z02774  
Lot No.: R50071611  
Size: 20  $\mu$ g/vial  
Storage Condition: Upon reconstitution, store at 2 - 8°C for up to one week,  
and store at - 20°C to - 80°C for long term storage.  
**Avoid repeated freeze/thaw cycles.**

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### Quality Control

Test Items	Specifications	Results
Physical Appearance	White Freeze - dried Powder	Conformed
Purity (SDS-PAGE&HPLC)	> 98%	Conformed
Specific Activity	> $1.0 \times 10^7$ IU/mg	$1.89 \times 10^7$ IU/mg
Molecular Weight	17.4 $\pm$ 1.7 KDa	Conformed
Bacterial Endotoxin	< 1.0 EU/ $\mu$ g	< 0.01 EU/ $\mu$ g

### 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: Joe Wang Date: 11/25/2016

Protein Products Department