

## CERTIFICATE OF ANALYSIS

### Product Information

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Product Name: IL-31, Human  
Cat. No.: Z02717  
Lot No.: R50011607  
Size: 10 µg/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)	> 97%	Conformed
Biological Activity(ED <sub>50</sub> )	< 5 ng/ml	Conformed
Molecular Weight	15.6 ± 1.6 KDa	Conformed
Bacterial Endotoxin	< 1.0 EU/µg	< 0.01 EU/µg

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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: Joe Wang Date: 07/08/2016

Protein Products Department