

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name: Interleukin-21 (IL-21), Mouse

Cat. No.: Z03242-10, Z03242-50, Z03242-1

Lot No.: P50061504

Size: 10 µg/vial; 50 µg/vial; 1mg/vial

Storage Condition: Lyophilized recombinant Mouse Interleukin-21 (IL-21), (rmIL-21) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rm IL-21 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) can be added. Avoid repeated freeze-thaw cycles.

### Quality Control

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE)	> 95%	Conformed
Biological Activity(ED <sub>50</sub> )	< 1 ng/ml	0.6 ng/ml
Molecular Weight	15.1 kDa	Conformed
Bacterial Endotoxin	< 0.2 EU/µg	Conformed

### 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: 06/20/2015  
Protein Products Department