

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name:	PD-1 Fc Chimera, Human
Cat. No.:	Z03370-50; Z03370-1
Lot No.:	B60021703
Size:	50 µg/vial; 1mg/vial
Storage Condition:	Lyophilized recombinant Human PD-1 Fc Chimera remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhPD-1 should be stable up to 1 week 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)	> 98%	Conformed
Biological Activity(ED <sub>50</sub> )	< 25 µg/ml	0.5-5 µg/ml
Molecular Weight	60-65 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: 04/26/2017

Protein Products Department