

CERTIFICATE OF ANALYSIS

Product Information

Product Name: TNF-α, Human

Cat. No.: Z01001-10; Z01001-50; Z01001-1

Lot No.: P50031608

Size: $10 \mu g/vial$; $50 \mu g/vial$; 1 mg/vial

Storage Condition: Lyophilized TNF-alpha remains stable at room temperature for

three weeks, but it is best stored desiccated below -18°C. Upon reconstitution TNF-alpha should be stored at 4 °C for up to seven days. For long term storage it is recommended that a carrier protein (0.1% HSA or BSA) be added. Avoid repeated freeze-

thaw cycles.

Quality Control

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE & HPLC))	> 98%	Conformed
Specific Activity	$> 3.3 \times 10^7 \text{IU/mg}$	$9.1 \times 10^7 \text{IU/mg}$
Molecular Weight	17.3±1.7KDa	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: ______ Date: <u>12/10/2016</u>

Protein Products Department