

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name: TGF- $\alpha$ , Human

Cat. No.: Z03332-10, Z03332-50, Z03332-1

Lot No.: P50021805

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

Storage Condition: Lyophilized recombinant Human Protransforming Growth Factor-alpha (rhTGF- $\alpha$ ) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhTGF- $\alpha$  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) 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> )	< 0.2 ng/mL	Conformed
Molecular Weight	5.8 kDa	Conformed
Bacterial Endotoxin	< 0.2 EU/ $\mu$ g	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: zh.cui Date: 05/21/2018

Protein Products Department