

Version 1.1

Update: 12/27/2019

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	TNF- α , His, Human
Cat. No.:	Z02685
Lot No.:	P50151408
Storage Condition:	Lyophilized recombinant human Tumor Necrosis Factor-Alpha (rhTNF-alpha) remains stable up to 12 months at lower than -70°C from date of receipt. Upon reconstitution, rhTNF-alpha should be stable up to 4 weeks at 4°C or up to 6 months at -20°C.

Quality Results

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE)	> 95%	Conformed
Biological Activity (ED ₅₀)	< 0.13 ng/ml	Conformed
Molecular Weight	18.3 kDa	Conformed
Bacterial Endotoxin	< 1.0 EU/ μ 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: *Dandan Yao* **Date:** 07/09/2021
Quality Department

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.