

Version 1.1

Update: 12/27/2019

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	TNF- β , Human
Cat. No.:	Z03375-10; Z03375-50; Z03375-1
Size:	10 μ g/vial; 50 μ g/vial; 1mg/vial
Lot No.:	P50342004
Storage Condition:	Lyophilized recombinant Human Tumor Necrosis Factor-beta (TNF- β) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human TNF- β 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 Results

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE)	> 95%	95.2%
Biological Activity(ED ₅₀)	< 4 pg/ml	1.69 pg/ml
Molecular Weight	18.6 kDa	Conformed
Bacterial Endotoxin	< 0.2 EU/ μ g	0.18 EU/ μ g

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: *Xianli Yang*
Quality Department

Date: 05/26/2020

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