

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	TNF-alpha (mutant), Human
Cat. No.:	Z00404
Lot No.:	C50101211
Size:	50µg/vial
Storage Condition:	Lyophilized TNF-alpha (mutant), Human remains stable at room temperature for three weeks, but it is best stored desiccated below -18°C. Upon reconstitution TNF-alpha (mutant), Human 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)	> 95%	Conformed
Purity (HPLC)	> 95%	97.30%
Specific Activity	> 1.0 × 10 ⁸ IU/mg	1.11 × 10 ⁹ IU/mg
Molecular Weight	16.88 ± 1.6 kDa	Conformed
Bacterial Endotoxin	< 0.1 EU/µg	Conformed
First Five N-terminal Amino Acids	Met-Arg-Lys-Arg-Lys	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: 11/12/2012

Product Department