



CERTIFICATE OF ANALYSIS
Tumor Necrosis Factor alpha
TNF- α
Human Recombinant Powder
(Catalog Number 300-193P)

Lot Number: G424168

Date Received: _____

Storage Temperature: $\leq -10^{\circ}\text{C}$

Product Expiry*: _____

For Cell culture, Further Manufacturing or Research use Only. Not for Direct Therapeutic Use.

*Expiration Date is one year from the date of receipt when stored at -20 to -80°C

Test	Methodology	Analysis
Biological Testing		
Endotoxin	USP <85>/ EP 2.6.14	<0.050 EU/ μg
Biological Testing		
Purity	Coomassie Staining	>95%
Biological Activity ED ₅₀	Cytolysis of mouse L929 cells in the presence of Actinomycin D assay	0.0088 ng/mL

The testing that has been performed as part of this lot release has been reviewed by Quality Assurance personnel and has confirmed that the testing meets the specifications presented on this Certificate of Analysis.

Sofia Tang
Name

QC Associate II
Title

27 NOV 2014
Date