

Version :04  
Update : 05/08/2023

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name	TNF- $\beta$ , Human
Cat. No.	Z03375
Lot No.	E2103008-F
Size:	Specified on product label
Formulation:	Lyophilized after extensive dialysis against PBS.
Reconstitution:	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 $\mu$ g/ml.
Stability & Storage:	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 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
Appearance	White Freeze-dried Powder	Pass
Purity	> 95% as analyzed by SDS-PAGE	Pass
Endotoxin Level	< 0.2 EU/ $\mu$ g of protein by gel clotting method	Pass
Biological Activity	ED <sub>50</sub> < 4.0 pg/ml, measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D, corresponding to a specific activity of > 2.5 $\times$ 10 <sup>8</sup> units/mg.	Pass

Date: 05/23/2023

Approved by: *Dandan Yao*

Quality Department

**For research use only. Not intended for human and animal therapeutic or diagnostic use.**

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