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**Certificate of Analysis**

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Product Name: TNF- $\alpha$  (10-36), human  
Cat. No.: GC37803  
Batch No.: 1  
Chemical Name:

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 144796-70-3  
Molecular Formula: C<sub>131</sub>H<sub>211</sub>N<sub>43</sub>O<sub>38</sub>  
Molecular Weight: 2996.34  
Storage: Store at -20°C  
Chemical Structure:

**ANALYTICAL DATA**

Appearance: solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98%  
Conclusion: The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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