

# CERTIFICATE OF ANALYSIS

<b>Product name:</b>	Recombinant Human Interleukin-6 (rHuIL-6 )
<b>Catalog:</b>	AC52377
<b>Size :</b>	100 µg
<b>Lot:</b>	5067230323
<b>Source:</b>	<i>Escherichia coli.</i>
<b>Molecular Weight:</b>	Approximately 20.9 kDa, a single non-glycosylated polypeptide chain containing 184 amino acids.
<b>Description :</b>	Accession # Q75MH2, Pro29-Met212, with an N terminal Met.
<b>SDS-PAGE:</b>	21 kDa, reducing conditions.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 150 mM NaCl , with 10% Trehalose.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute to a concentration of 0.1-0.2 mg/mL in sterile distilled H <sub>2</sub> O. Stock solutions should be apportioned into working aliquots and stored at -20 °C to -70 °C. Further dilutions should be made in appropriate buffered solutions. <b>Do not reconstitute in cell culture media directly.</b>
<b>Shipping:</b>	The product is shipped at 2 °C to 8 °C . Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>A minimum of 12 months from date of shipping when stored at -20 °C to -70 °C as supplied.</p> <p>4 weeks at 2 °C to 8 °C under sterile conditions after reconstitution.</p> <p>4 months at -20 °C to -70 °C under sterile conditions after reconstitution.</p>

Quality control assays		
Test	Standard	Result
Endotoxin	< 0.1EU/µg	Pass
Purity	> 95%	Pass
Sterility	Negative	Pass
Biological Activity-ELISA	Immobilized Recombinant Human IL-6(Catalog # AC52377) at 0.2µg/well can bind Human IL-6 R alpha with a linear range of 859.6 to 1996 ng/mL.	Pass
Biological Activity-BLI	Loaded Human IL-6 R alpha, can bind Recombinant Human IL-6(Catalog # AC52377) with an affinity constant of 1.772 nM as determined in BLI assay (Octet R8).	Pass
Biological Activity-Cell based assay	Recombinant Human IL-6 (Catalog # AC52377) stimulates proliferation of TF-1 human erythroleukemic cell line. The EC50 for this effect is 1.259 to 5.459 ng/mL.	Pass

This product lot has passed Acnovia's QC testing.



For research use only.