

# CERTIFICATE OF ANALYSIS

**Product name:** Recombinant Human Interleukin-2 (rHull-2) (C125S)

**Catalog:** AC52350

**Size :** 100 µg

**Lot:** 1078230925

**Source:** *Escherichia coli*.

**Molecular Weight:** Approximately 15.5 kDa, a single non-glycosylated polypeptide chain containing 134 amino acids.

**Description:** Accession #P60658.1, Ala21-Thr153 (C125S) , with an N-terminal Met.

**SDS-PAGE:** 15.5 kDa, reducing conditions.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB pH 3.5 with 10% trehalose anhydrous.

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute to a concentration of 0.1-1.0 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. **Do not reconstitute in cell culture media directly.**

**Shipping:** The product is shipped at 2 °C to 8 °C . Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage:** **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**  
 A minimum of 12 months from date of shipping when stored at -20 °C to -70 °C.  
 4 weeks at 2 °C to 8 °C under sterile conditions after reconstitution.  
 4 months at -20 °C to -70 °C under sterile conditions after reconstitution.

Quality control assays		
Test	Standard	Result
Endotoxin	< 0.1EU/µg	Pass
Purity	> 95%	Pass
Sterility	Negative	Pass
Biological Activity-ELISA	Immobilized Recombinant Human IL-2(Catalog # AC52350) at 0.2 µg/well can bind Human IL-2 R alpha, Fc Tag , with a linear range of 803.1 to 987.6 ng/mL.	Pass
Biological Activity-Cell based assay	Recombinant Human IL-2(Catalog # AC52350) stimulates proliferation of CTLL-2 cells, the EC50 for this effect is 2.492 to 3.037 ng/mL.	Pass

This product lot has passed Acnovia's QC testing

