

CERTIFICATE OF ANALYSIS

Product name:	Recombinant Human Interleukin-2 (rHuIL-2)
Catalog:	AC52388
Size :	100 µg
Lot:	1029220920
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 15.5 kDa, a single non-glycosylated polypeptide chain containing 134 amino acid.
Description :	Accession # P60658, Ala21-Thr153 (C125A) , with an N-terminal Ser.
SDS-PAGE:	15.5kDa, 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 ₂ 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 as supplied. 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
purity	> 95%	Pass
Biological Activity-ELISA	Immobilized Recombinant Human IL-2(Catalog # AC52388) at 0.2µg/well can bind Human IL-2 R alpha, Fc Tag , with a linear range of 378.4 to 508.8 ng/mL.	Pass
Biological Activity-BLI	Loaded Human IL-2 R alpha, can bind Recombinant Human IL-2(Catalog # AC52388) with an affinity constant of 4.55 nM as determined in BLI assay (Octet Red96e) .	Pass
Biological Activity-Cell based assay	Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells, the EC50 for this effect is 0.183 to 0.243 ng/mL.	Pass

This product lot has passed Acnovia's QC testing.

