

CERTIFICATE OF ANALYSIS

Product name:	Recombinant Human Interleukin-4 (rHuIL-4)
Catalog:	AC52383
Size :	100 µg
Lot:	1037230323
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 15 kDa, a single polypeptide chain containing 119 amino acids.
Description :	Accession # P07750 (H23-S140), His26-Ser140, with an N terminal Met.
SDS-PAGE:	15 kDa, reducing conditions.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
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. 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/ug	Pass
Purity	> 95%	Pass
Sterility	Negative	Pass
Biological Activity-ELISA	Immobilized Recombinant Human IL-4 (Catalog #AC52383) at 0.2µg/well can bind Human IL-4 R alpha with a linear range of 1.359 to 377.7 ng/mL.	Pass
Biological Activity-BLI	Loaded Human IL-4 R alpha, can bind Recombinant Human IL-4 (Catalog #AC52383) with an affinity constant of 33.01nM as determined in BLI assay (Octet® R8).	Pass
Biological Activity-Cell based assay	Recombinant Human IL-4 (Catalog #AC52383) stimulates proliferation of TF-1 human erythroleukemic cells. The EC50 for this effect is 0.05570 to 0.1438 ng/mL.	Pass

This product lot has passed Acnovia's QC testing.

