

CERTIFICATE OF ANALYSIS

Product name:	Recombinant Human Interleukin-12 (rHuIL-12)
Catalog:	AC52382
Size :	100 µg
Lot:	1008230512
Source:	CHO-driven Recombinant Human Interleukin-12
Molecular Weight:	Approximately 59 kDa (p40-Linker-p35), containing 523 amino acids.
Description:	Accession # P29460 Human IL-12 p40 (Ile23-Ser328) & Accession # P29459 Human IL-12 p35 (Arg23-Ser219) with a N terminal Ile.
SDS-PAGE:	72 kDa, under reducing and no reducing condition.
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 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
Endotoxin	< 0.1 EU/µg	Pass
Purity	> 95%	Pass
Sterility	Negative	Pass
Biological Activity-ELISA	Immobilized Recombinant Human IL-12 (Catalog #AC52382) at 0.2µg/well can bind Human IL-12R with a linear range of 465.7 to 1470 ng/mL.	Pass
Biological Activity-BLI	Loaded Human IL-12R can bind Recombinant Human IL-12 (Catalog #AC52382) with an affinity constant of 0.98 nM as determined in BLI assay (Octet®R8).	Pass
Biological Activity-Cell based assay	Recombinant Human IL-12 (Catalog #AC52382) stimulates proliferation of PHA-P-activated human peripheral blood mononuclear cell (PBMC). The EC50 for this effect is 0.003197 to 0.006955 ng/mL.	Pass

This product lot has passed Acnovia's QC testing.
 For research use only.

