

CERTIFICATE OF ANALYSIS

Product name:	Recombinant Human IFN- γ (rHuIFN- γ)
Catalog:	AC52381
Size :	100 μ g
Lot:	1038230202
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 16.9kDa, a single non-glycosylated polypeptide chain containing 143 amino acids.
Description :	Accession # CAA31639, Gln24-Gln166, with an N terminal Met.
SDS-PAGE:	16.9 kDa, under reducing conditions.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μ m 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 H₂O . 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	< 1EU// μ g	Pass
Purity	> 95%	Pass
Sterility	Negative	Pass
Bioactivity-ELISA	Immobilized Recombinant Human IFN- γ (Catalog # AC52381) at 0.2 μ g/well can bind Human IFN- γ R1 with a linear range of 31.0 to 38.37 ng/mL.	Pass
Bioactivity-BLI	Loaded Human IFN- γ R1, can bind Recombinant Human IFN- γ (Catalog # AC52381) with an affinity constant of 0.051nM as determined in BLI assay (Octet®R8).	Pass
Bioactivity-Cell based assay	Recombinant human IFN- γ bioactivity is measured by inhibition of the proliferation of HT-29 cells, the EC50 for this effect is 8.342-14.89 ng/mL.	Pass

This product lot has passed Acnovia's QC testing.

