

CERTIFICATE OF ANALYSIS

Product name:	Recombinant Human Basic Fibroblast Growth Factor (rHubFGF)
Catalog:	AC52374
Size :	100 µg
Lot:	5015230528
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 16 kDa, a single non-glycosylated polypeptide chain containing 146 amino acids.
Description:	Accession # NP_001997 , Ala144-Ser288, with an N-terminal met.
SDS-PAGE:	16.44 kDa, reducing conditions.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM PBS, pH 7.5 without carrier protein or preservatives.
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	< 0.01EU/µg	Pass
Purity	> 95%	Pass
Sterility	Negative	Pass
Biological Activity-ELISA	Immobilized Recombinant Human bFGF (Catalog #AC52374) at 0.2µg/well can bind Human Glypican 3 with a linear range of 243.3 to 576.5 ng/mL.	Pass
Biological Activity-BLI	Loaded Human Glypican 3, can bind Recombinant Human bFGF(Catalog #AC52374) with an affinity constant of 11.85nM as determined in BLI assay (Octet R8).	Pass
Biological Activity-Cell based assay	Recombinant Human bFGF (Catalog #AC52374) stimulates proliferation of BALB/3T3 cells, the EC50 for this effect is 0.001-0.02ng/mL.	Pass

This product lot has passed Acnovia's QC testing.

