

Cat. No.	C1091
Lot. No.	7617-G001
Size	100 ug

Human FGF-8b Protein, premium grade
Description

Source	Human FGF-8b Protein, premium grade(C1091) is expressed from E. coli cells. It contains AA Gln 23 - Arg 215 (Accession # P55075-3).Predicted N-terminus: Met It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage.
Molecular Characterization	This protein carries no "tag". The protein has a calculated MW of 22.5 kDa. The protein migrates as 25 kDa±3 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).
Formulation	Lyophilized from 578 µL bulk protein in a 0.2 µm filtered solution of PBS, pH7.4 with 10% trehalose as protectant.

Specifications

Test items	Method&Specification	Result
PhysicalAppearance	White powder	Pass
ProteinContent	Verified by one or more methods from UV280/SDS-PAGE/BCA/Bradford/Lowry.	Pass
Endotoxin	Less than 0.01 EU per µg by the LAL method.	Pass
Sterility	Negative, the sterility testing was performed by membrane filtration method or direct inoculation method.	Pass
Mycoplasma	Negative. The mycoplasma testing was performed by One-step or Luminescent detection method.	Pass
Purity	>95% as determined by SDS-PAGE.	Pass
Water determination	< 3.0% of protein tested by Karl Fischer method	Pass
Host Cell DNA	<0.02 ng/µg of protein tested by qPCR.	Pass
Host Cell Protein	<0.5 ng/µg of protein tested by ELISA.	Pass
Antibiotic residues	<0.05 ng/ug of protein tested by ELISA.	Pass
Elisa assay	Measured by its binding ability in a functional ELISA.Immobilized Human FGF-8b Protein, premium grade (Cat. No. C1091) at 5 µg/mL (100 µL/well) can bind Human FGF R3 (IIIb), Fc Tag (Cat. No. C1095) (QC tested). The bioactivity was comparable to standard batch.	Pass

Reconstitution

It is strongly recommended to reconstitute the lyophilized Human FGF-8b Protein, premium grade with 500 µL sterile deionized water to a stock solution of 200 µg/ml.

Always work under sterile conditions to avoid contamination.

Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing.

Avoid vigorous shaking or vortexing.
Minimal volume for aliquot

To avoid surface adsorption loss and inactivation, the reconstituted protein **MUST NOT** be aliquoted to less than 10 ug per vial.

Under the following conditions , Carrier protein (0.1% (W/V) BSA or HSA **MUST** be included in reconstitution buffer.

1. Aliquots of less than 10 ug/vial;
2. Long term storage.
3. The concentration is less than the recommended reconstitution concentration published on the COA;

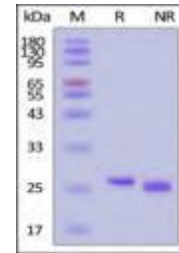


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SDS-PAGE

Human FGF-8b Protein, premium grade on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).



Shipping and Storage

The product is shipped at ambient temperature. Upon receipt, store it immediately at -20°C or lower for long term storage.

This product is stable after storage at:

1. -20°C to -70°C for 24 months in lyophilized state from date of receipt;
2. -70°C for 3 months under sterile conditions after reconstitution.

Once reconstitution, store the stock solution at -70°C immediately and avoid repeated freeze-thaw cycles!