

Recombinant Human FGF-2/bFGF Protein

RPCB0853

Description

This high-purity Recombinant Human FGF-2/bFGF Protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU:	RPCB0853
Contents:	20 µg, 50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
Synonyms:	BFGF, FGF-2, FGFB, HBGF-2, FGF2, FGF-2, FGFB, HBGF-2, Basic FGF, BFGF, fibroblast growth factor 2
Species:	Human
Gene ID:	2247
Expression Host:	E. coli
Tags:	No tag
Calculated MW:	16.41 kDa
Observed MW:	17 kDa
Purification:	≥ 95 % as determined by SDS-PAGE.
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Formulation:	Lyophilized from a 0.22 µm filtered solution of 20mM Tris, 150 mM NaCl,pH7.5.Contact us for customized product form or formulation.
Bio- Activity:	1. Immobilized recombinant human FGF2 at 1 µg/mL (100 µL/well) can bind recombinant human FGFR4 with a linear range of 30-125 ng/mL.

Manufacturers Statement - This final kit system is assembled and quality-released by Assay Genie Limited

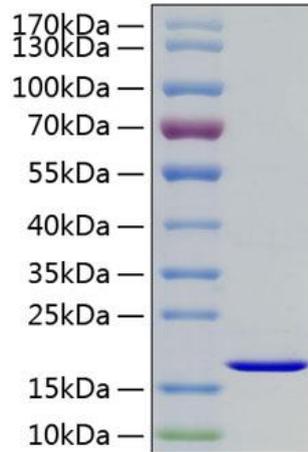
2. Immobilized Human FGF2 at 0.5 µg/mL (100 µL/well) can bind Human GPC3 with a linear range of 7-20ng/mL.
3. Recombinant Human FGF-2 promotes the proliferation of Balb3T3 mouse embryonic fibroblasts cells. The ED 50 for this effect is 0.05-0.21 ng/mL, corresponding to a specific activity of $4.76 \times 10^6 \sim 2.00 \times 10^7$ units/mg.
4. Human liver organoids were cultured with EGF, HGF(RPCB1637), FGF2(RPCB0853), FGF10(RPCB0828), NOG(RPCB0864), RSPO1(RPCB0176), WNT-3a(Cat. RP01618SLQ).
5. Human kidney organoids were cultured with EGF, FGF2(RPCB0853), FGF7(RPCB1793), FGF9(RPCB1059), FGF10(RPCB0828), IGF-(RPCB0759), NOG(RPCB0864), RSPO1(RPCB0176), WNT-3a(Cat. RP01618SLQ). And further, DKK-1(RPCB0891) was used to induce the establishment of cell polarity.

Preparation & Storage

- Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
- Storage:** Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Store Bradford Reagent at Room Temperature for 1 Year.
- Reconstitution:** Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
- Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

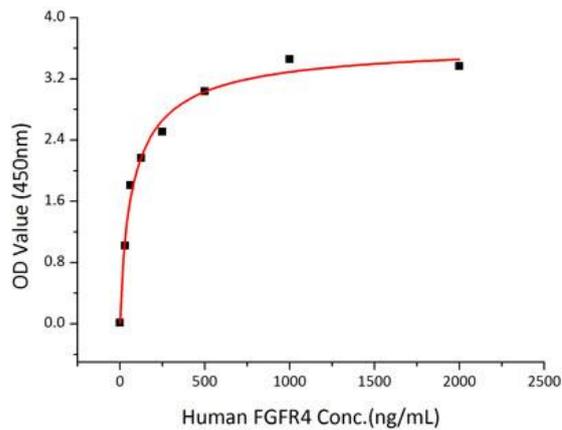
Validation Data

Image

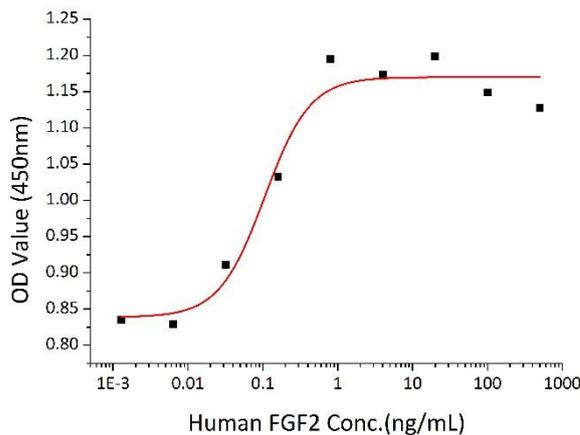


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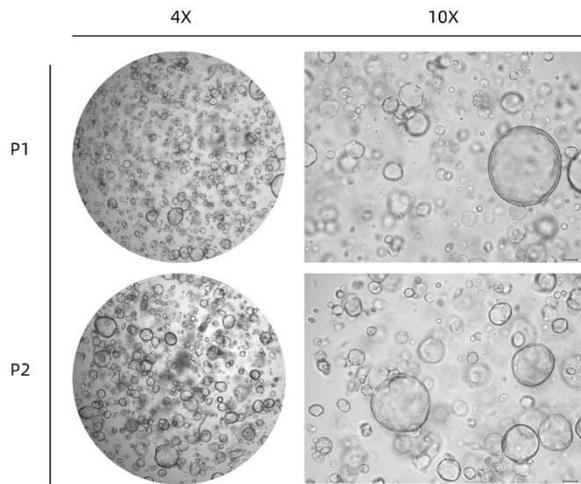
Recombinant Human FGF-2/bFGF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant human FGF2 at 1 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind recombinant human FGFR4 with a linear range of 30-125 ng/mL.



Recombinant Human FGF-2 promotes the proliferation of Balb3T3 mouse embryonic fibroblasts cells. The ED50 for this effect is 0.05-0.21 ng/mL, corresponding to a specific activity of $4.76 \times 10^6 \sim 2.00 \times 10^7$ units/mg.



Human liver organoids were cultured with EGF, HGF(RPCB1637), FGF2(RPCB0853), FGF10(RPCB0828), NOG(RPCB0864), RSPO1(RPCB0176), WNT-3a(Cat. RP01618SLQ).