Recombinant Human FGF-10 Protein

RPCB0828

Description

This high-purity Recombinant Human FGF-10 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:	RPCB0828
Contents:	10 µg, 20 µg, 50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
Synonyms:	Fibroblast growth factor 10, FGF-10, Keratinocyte growth factor 2, FGF10, KGF2
Species:	Human
Gene ID:	2255
Expression Host:	E. coli
Tags:	No tag
Calculated MW:	19.32 kDa
Observed MW:	20-25 kDa
Purification:	≥ 95 % as determined by SDS-PAGE, ≥ 95 % as determined by HPLC.
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Formulation:	Lyophilized from a 0.22 µm filtered solution of PBS pH7.4.
Bio- Activity:	1. Measured in a cell proliferation assay using 4MBr-5 rhesus monkey epithelial cells. The ED 50 for this effect is 2.08-8.32 ng/mL, corresponding to a specific activity of 1.20×10 5 ~4.81×10 5 units/mg.

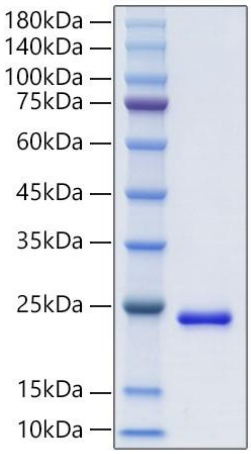
2. Human stomach organoids were cultured with EGF, FGF10(RPCB0828), NOG(RPCB0864), RSPO1(RPCB0176), WNT-3a(Cat. RP01618SLQ).
3. Human liver organoids were cultured with EGF, HGF(RPCB1637), FGF2(RPCB0853), FGF10(RPCB0828), NOG(RPCB0864), RSPO1(RPCB0176), WNT-3a(Cat. RP01618SLQ).
4. Human kidney organoids 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℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ 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 stablizer (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.

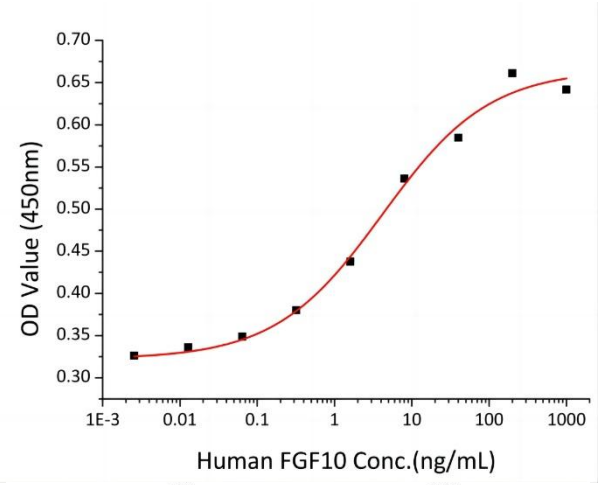
Validation Data

Image

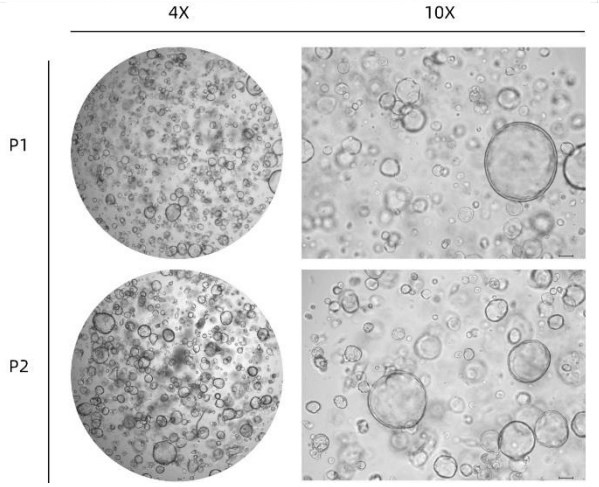


Description

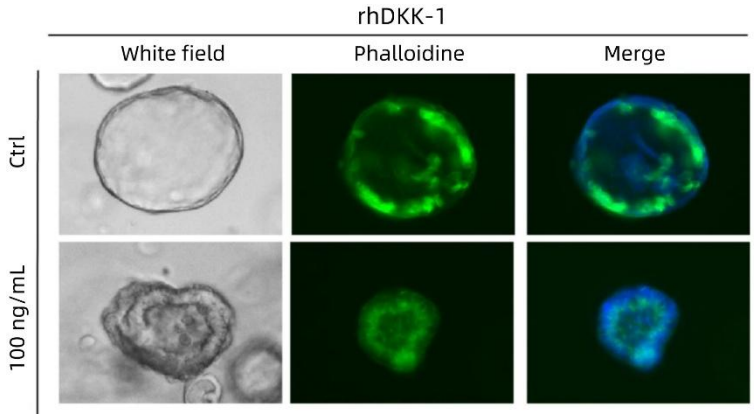
Recombinant Human FGF-10 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human FGF-10 Protein promotes proliferation assay using 4MBr-5 rhesus monkey epithelial cells. The ED50 for this effect is 2.08-8.32 ng/mL, corresponding to a specific activity of 1.20×105~4.81×105 units/mg.



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



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.