

Recombinant Mouse FGF-7/HBGF-7/KGF Protein

Catalog No.: RP03172 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14178	P36363

Tags
NO-Tag**Synonyms**Fibroblast growth factor
7;FGF-7;Heparin-binding growth factor
7;Keratinocyte growth factor;Fgf7;Fgf-7;
Kgf

Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

Endotoxin

<1EU/ug of the protein by LAL method

Formulation

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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.

Contact

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Background

Fibroblast growth factor 7 (FGF7) is a member of the fibroblast growth factor (FGF) family of proteins. FGF7 plays an important role in regulating the proliferation, migration, and differentiation of cells. FGF7 is of stromal origin and produces a paracrine effect on epithelial cells. FGF7 is a mesenchyme-specific heparin-binding growth factor that binds FGF receptor 2 (FGFR2) to regulate numerous cellular and physiological processes. FGF7/FGFR2 promotes invasion and migration in human gastric cancer. FGF7 is specifically utilized as a paracrine factor during the process of differentiation of the epidermal layers in the regenerating scales and in particular for beta-cells differentiation. FGF7 over expression is associated with advanced clinical features in patients with upper tract and bladder urothelial carcinoma, justifying its potential prognostic value for urothelial carcinoma.

Basic Information

DescriptionRecombinant Recombinant Mouse FGF-7/HBGF-7/KGF Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Cys32-Thr194) of Mouse FGF-7/HBGF-7/KGF (Accession #NP_032034.1) fused with no tag .**Bio-Activity**

Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with human FGFR2b. The ED50 for this effect is typically 20-100 ng/mL

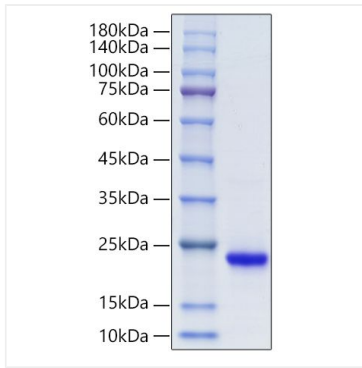
Storage

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.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse FGF-7/HBGF-7/KGF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-25 kDa.