

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

Catalog No.: RP03172

Sequence Information

Species	Gene ID
Mouse	14178
Swiss Prot	Tags
P36363	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 % as determined by SDS-PAGE.

Calculated MWObserved MW

18.75 kDa 20-25 kDa

Endotoxin

< 1 EU/μg 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.

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

Description

Recombinant 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.

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.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

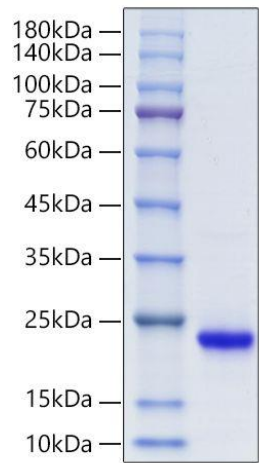
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Validation Data



Recombinant Mouse FGF-7/HBGF-7/KGF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.