

FGF-7/KGF Protein, Human, Recombinant

General Information

Synonyms:	Fibroblast growth factor 7;FGF-7;Heparin-binding growth factor 7;FGF7;KGF;Keratinocyte growth factor;HBGF-7
Protein Construction:	Cys32-Thr194
Species:	Human
Expression Host:	E. coli
Accession:	P21781
Molecular Weight:	17 KDa (reducing condition)
AA Sequence:	Cys32-Thr194

QC Testing

Biological Activity:	Human breast cancer organoids were cultured with Wnt3a, Noggin, R-spondin 3, KGF (Cat#TMPJ-00073), FGF-10, EGF and NRG1-beta 1 (Cat#TMPJ-00448). The organoids showed good morphology.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 1 mM EDTA, 5% Trehalose, 0.02% Tween 80, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Fibroblast growth factor 7 (FGF7) is a secreted protein which is mainly located in epithelial cells and belongs to the heparin-binding growth factors family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth,

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morphogenesis, tissue repair, tumor growth and invasion. FGF7 is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. It is possible major paracrine effector of normal epithelial cell proliferation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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