

FGF-7/KGF Protein, Mouse, Recombinant

General Information

Synonyms:	FGF7;Fibroblast Growth Factor-7;Keratinocyte Growth Factor;HBGF-7
Protein Construction:	Cys32-Thr194
Species:	Mouse
Expression Host:	E. coli
Accession:	P36363
Molecular Weight:	~18.7 kDa (Reducing conditions)

QC Testing

Biological Activity:	ED 50 < 2.0 ng/ml, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 5.0 × 10 ⁵ units/mg.
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/μg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution in PBS.

Preparation and Storage

Reconstitution:

It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in PBS up to 100 μg/ml.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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

Keratinocyte Growth Factor (KGF) is a highly specific epithelial mitogen produced by fibroblasts and mesenchymal stem cells. KGF belongs to the heparin binding Fibroblast Growth Factor (FGF) family, and is known as FGF-7. However, in contrast to FGF-1, which binds to all known FGF receptors with high affinity, KGF only binds to a splice variant of the FGF receptor, FGFR2-IIIb. FGFR2-IIIb is expressed by most epithelial cells, indicating KGF's role as a paracrine mediator. KGF induces the differentiation and proliferation of various epithelial cells such as keratinocytes in the epidermis, hair follicles and sebaceous glands., KGF is also responsible for wound repair of various tissues including lung, bladder, and kidney.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481