

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

FGF7/KGF1 is a member of the Fibroblast Growth Factor family of proteins. In the FGF family, FGF7 is most closely related to FGF10 (KGF2), FGF3 and FGF22 (see additional information). Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues by promoting cellular proliferation and differentiation. FGF7/KGF1 is mitogen factor specific for epithelial cells and keratinocytes and signals through Fibroblast Growth Factor Receptor-2b (FGFR-2b) and plays an important role in kidney and lung development, angiogenesis and wound healing.

Catalog Number	1140-07
Product Name	FGF7/KGF1, Human Recombinant Human Fibroblast Growth Factor 7 FGF7 KGF1 Keratinocyte Growth Factor 1
Source	<i>Escherichia coli</i>
MW	~18.9 kDa (163 amino acids)
Sequence	CNDMTPEQMA TNVNCSSPER HTRSVDYMEG GDIRVRLFC RTQWYLRIK RGKVKGTQEM KNNYNIMEIR TVAVGIVAIAK GVESEFYLAM NKEGKLYAKK ECNEDCNFKE LILENHYNLY ASAKWTHNGG EMFVALNQQG IPVRGKTKK EQKTAHFLPM AIT
Accession Number	P21781
Purity	>96% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 10 ng/ml, corresponding to a specific activity of >1.0 × 10 ⁵ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.