

Growth Factor Data Sheet

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FGF10/KGF2 is a member of the Fibroblast Growth Factor family of proteins. KGF2 cDNA encodes a 208 amino acid residue protein with a hydrophobic amino-terminal signal peptide. Human KGF2 shares 92% and 95% amino acid sequence identity with mouse and rat KGF2, respectively. In the FGF family, KGF2 is most closely related to FGF7 (KGF1), FGF3 and FGF22 (see additional information). The expression of KGF2 transcript has been shown to be most abundant in the embryo and adult lung. Recombinant KGF2 has been shown to be mitogenic for epithelial and epidermal cells but not fibroblasts. KGF2 may play unique roles in brain and lung development, wound healing and limb bud formation.

Catalog Number	1140-10
Product Name	FGF10/KGF2, Human Recombinant Human Fibroblast Growth Factor 10 FGF10 KGF2 Keratinocyte Growth Factor 2
Source	<i>Escherichia coli</i>
MW	~19.1 kDa (169 amino acids)
Sequence	LGQDMVSPEA TNSSSSFSS PSSAGRHVRS YNHLQGDVRW RKLFSFTKYF LKIEKNGKVS GTTKENCYPYS ILEITSVEIG VVAVKAINSN YYLAMNKKGK LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG QKTRRKNTSA HFLPMVVHS
Accession Number	O15520
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 0.5 ng/ml, corresponding to a specific activity of >2.0 × 10 ⁶ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	The lyophilized sample is stable at 2-8°C, but should be kept desiccated 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 for maximal stability. 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 and 1 µg/ml heparin.