

**Recombinant Human Keratinocyte Growth
Factor-2/FGF-10
(rHuKGF-2/FGF-10)**
PrimeGene Technical Data Sheet

Catalog Number:	104-10
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 19.1 kDa, a single, non-glycosylated polypeptide chain containing 169 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	LGQDMVSPEA TNSSSSSFSF PSSAGRHVRS YNHLQGDVWR RKLFSFTKYF LKIEKNGKVS GTKKENCYPYS ILEITSVEIG VVAVKAINSN YYLAMNKKKGK LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG QKTRRKNTSA HFLPMVVHS
Purity:	> 97 % 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.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rHuKGF-2/FGF-10 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Human Keratinocyte Growth Factor-2/FGF-10

Fibroblast growth factor 10 belongs to the fibroblast growth factor (FGF) family which is involved in a variety of biological processes such as embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. Like most other FGF family members, FGF-10 also has a heparin-binding domain and it plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. In addition, FGF-10 may play a role in wound healing and is required for normal branching morphogenesis. Recombinant human FGF-10 contains a 208 amino acids and it shares 92 % and 95 % amino acid sequence identity with murine and rat FGF-10. Defects in FGF-10 are the cause of autosomal dominant aplasia of lacrimal and salivary glands and lacrimo-auriculo-dento-digital syndrome.