

## Product Datasheet

### RecombinantKGF/FGF-7,Human (orb1494808)

<b>Description</b>	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 the FGF-1, which binds to all known FGF receptors with high affinity, KGF only binds to a splice variant of an FGF receptor, FGFR2-IIIb. FGFR2-IIIb is produced by most of the epithelial cells, indicating that KGF plays roles as a paracrine mediator. KGF induces the differentiation and proliferation of various epithelial cells, including keratinocytes in the epidermis, hair follicles and sebaceous glands, and is responsible for the wound repairs of various tissues, including lung, bladder, and kidney. Recombinant human Keratinocyte Growth Factor (rhKGF) produced in E.coli is a single non-glycosylated polypeptide chain containing 164 amino acids. A fully biologically active molecule, rhKGF has a molecular mass of 19.0 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.
<b>Endotoxins</b>	< 0.2 EU/μg, determined by LAL method.
<b>Preservatives</b>	Lyophilized after extensive dialysis against PBS.
<b>Form/Appearance</b>	Lyophilized after extensive dialysis against PBS.
<b>Storage</b>	Lyophilized recombinant human Keratinocyte Growth Factor (rhKGF) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhKGF should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only
<b>Application notes</b>	Reconstituted in ddH2O at 100 μg/ml.
<b>Protein Sequence</b>	MCN DMTPEQMATN VNCSSPERHT RSYDYMEGGD IRVRRLLFCRT QWYLRIDKRG KVKGQTQEMKN NYNIMEIRTV AVGIVAIGKV ESEFYLAMNK EGKLYAKKEC NEDCNFKELI LENHYNTYAS AKWTHNGGEM FVALNQKGIP VRGKKTKKEQ KTAHFLPMAI T
<b>Purity</b>	> 95% by SDS-PAGE and HPLC analyses.
<b>Source</b>	Escherichia coli.

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**MW** 19.0 kDa, observed by reducing SDS-PAGE.

**Expiration Date** 6 months from date of receipt.

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