

## Recombinant Human KGF (FGF7)

Cat No:HR2R1655

For research use only

### Overview

|                    |   |
|--------------------|---|
| Quantity           | 1.0 ?g  |
| Gene Symbol        | FGF7  |
| Gene ID            | 2252  |
| Accession          | P21781  |
| Alternative Name   | KGF, Fibroblast Growth Factor-7, HBGF-7, Heparin-binding growth factor 7<br/>Recombinant Human Keratinocyte Growth Factor (FGF7)  |
| Species            | Human   |
| Source             | E. coli   |
| Description        | KGF is a member of the family of fibroblast growth factors, it is secreted in large amounts by fibroblast-like stromal cells in epithelial tissues. The KGF receptor encodes a tyrosine kinase and is a member of the family of receptors binding aFGF and bFGF. Binding of KGF to its receptor is competed by aFGF and bFGF. Although KGF is a potent specific mitogen for many epithelial cells it is not so for fibroblasts and endothelial cells. KGF is thought to play an important role in the paracrine growth control of normal epithelial cells. KGF stimulates the proliferation of primary and secondary human keratinocytes to the same extent as EGF. |
| Functions          | The ED50 as determined by the dose-dependent proliferation of 3T3 cells was found to be less than 0.5 ng/mL.  |
| Formulation        | Lyophilized from a 0.2 ?m filtered solution in PBS (pH 7.0)   |
| Solubility         | A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.  |
| Appearance         | Lyophilized Powder  |
| Molecular Weight   | 19  |
| Purity             | >95% as determined by SDS-PAGE  |
| Concentration      | <1.0 EU/?g of recombinant protein as determined by the LAL method.  |
| Shipping Condition | Ambient Temperature   |
| Storage Condition  | The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.   |