

Product datasheet for **TP750010**

KGF (FGF7) (NM_002009) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human Fibroblast Growth Factor-7 (KGF) produced in E. coli. |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | A DNA sequence encoding the region (Cys32-Thr194) of human FGF7 |
| Tag: | Tag Free |
| Predicted MW: | 19 kDa |
| Concentration: | Resuspend the protein to the desired concentration in proper buffer. |
| Purity: | >95% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | Lyophilized from a sterile solution containing 20 mM PB, pH 7.4 |
| Bioactivity: | Determined by the dose-dependant stimulation of 4MBr-5 cells. ED50 for this effect is typically 0.92-1.38 ng/ml. |
| Endotoxin: | < 0.1 EU per 1 µg of the protein by the LAL |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_002000 |
| Locus ID: | 2252 |
| UniProt ID: | P21781 |
| RefSeq Size: | 3853 |
| Cytogenetics: | 15q21.2 |
| RefSeq ORF: | 582 |
| Synonyms: | HBGF-7; KGF |



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Summary:

The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis. [provided by RefSeq, Jul 2008]

Protein Families:

Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways:

MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

Product images: