

**CHASELECTION****Recombinant Human KGF/FGF-7, Tag Free**

货号(Catalog Number): CY079FXXXX(L)

**别名(synonym):**

FGF7; FGF-7; fibroblast growth factor 7HBGF-7; HBGF7; HBGF-7; Heparin-binding growth factor 7

**来源(Source):** Human embryonic kidney cell, HEK293-derived human FGF-7 protein**蛋白结构 (Structure):**

该蛋白不含标签

**基因 ID:** P21781**氨基酸序列:**

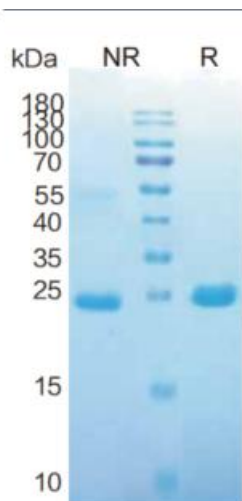
Cys32-Thr194

**分子量大小(MW):**

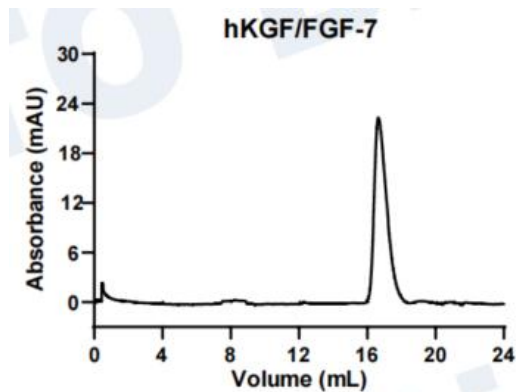
18.9 kDa

**纯度 (Purity) :**

&gt; 95%, determined by SDS-PAGE

**SDS-PAGE**

4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by CoomassieBlue staining.



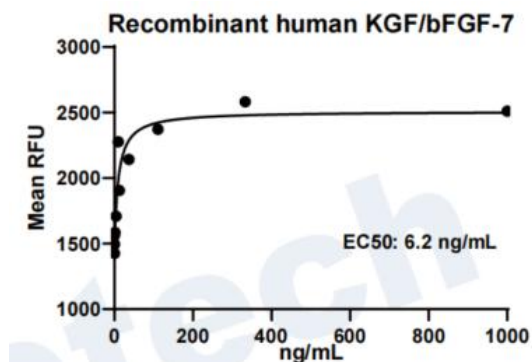
Size-exclusion chromatography of recombinant human KGF/FGF-7 protein (280 nm absorbance).

**内毒素含量 (Endotoxin) :**

&lt;0.010 EU per 1 ug of the protein by the LAL method

**制剂(Formulation):**

Solution protein. Dissolved in sterile PBS buffer. This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

**活性检测 (Biological Activity) :**

Recombinant human KGF/FGF-7 (Catalog # HF-2025) inhibits BMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells.



**储存与运输(Storage):**

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 ° C as supplied.

Shipping with dry ice.

canine, 96% with mouse and porcine, and 92% with rat KGF, respectively.

**产品背景介绍 (Production) :**

Fibroblast growth factor-7(FGF-7) is one of 22 known members of the mouse FGF family of secreted proteins that plays a key role in development, morphogenesis, angiogenesis, wound healing, and tumorigenesis . KGF expression is restricted to cells of mesenchymal origin. When secreted, it acts as a paracrine growth factor for nearby epithelial cells.KGF speeds wound healing by being dramatically upregulated in response to damage to skin or internal structures that results in high local concentrations of inflammatory mediators such as IL-1 and TNF-alpha. KGF promotes cell migration and invasion, and mediates melanocyte transfer to keratinocytes upon UVB radiation. It has been used ectopically to avoid chemotherapy-induced oral mucositis in patients with hematological malignancies. Deletion of KGF affects kidney development, producing abnormally small ureteric buds and fewer nephrons . It also impedes hair follicle differentiation. The 194 amino acid (aa) KGF precursor contains a 31 aa signal sequence and, like all other FGFs, an ~120 aa beta -trefoil scaffold that includes receptor- and heparin-binding sites. KGF signals only through the IIIb splice form of the tyrosine kinase receptor, FGF R2 (FGF R2-IIIb/KGF R). Receptor dimerization requires an octameric or larger heparin or heparin sulfate proteoglycan. FGF-10, also called KGF2, shares 51% aa identity and similar function to KGF, but shows more limited expression than KGF and uses an additional receptor,FGF R2-IIIc. Following receptor engagement, KGF is typically degraded, while FGF-10 is recycled . Mature human KGF, which is active across species, shares 98% aa sequence identity with bovine, equine, ovine and

