

## Recombinant Human FGF-2/FGF basic/FGFb Protein

**Catalog Number: PKSH033503**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

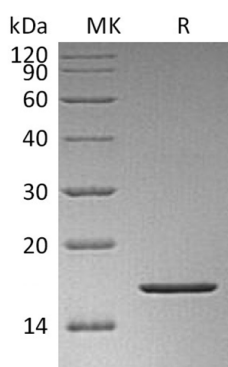
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human FGF-2/FGF basic/FGFb protein Met1-Ser155
<b>Calculated MW</b>	17.2 kDa
<b>Observed MW</b>	17 kDa
<b>Accession</b>	BAG70135.1
<b>Bio-activity</b>	Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED <sub>50</sub> for this effect is 0.75 ng/ml.

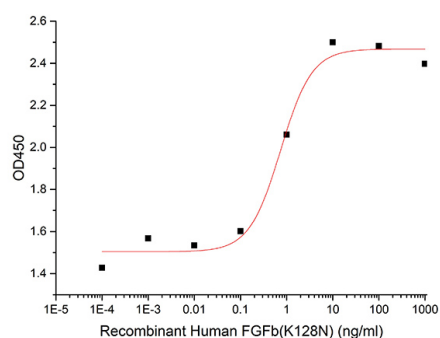
### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 200mM NaCl, pH 7.5.

### Data



> 95 % as determined by reducing SDS-PAGE.



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### Background

Fibroblast growth factors (FGF) are a family of heparin-binding secreted proteins that stimulate cell proliferation and differentiation in a wide variety of tissues. FGFs play important roles in diverse biological functions both in vivo and in vitro; including mitogenesis; cellular migration; differentiation; angiogenesis; and wound healing. Human embryonic stem cell (hESC) cultures require FGF basic (also known as FGF-2 or bFGF) in cell culture media to remain in an undifferentiated and pluripotent state. Thermostable FGF basic was engineered for enhanced stability in culture media; without modification of its biological function. FGF basic is a required component of stem cell culture media for maintaining cells in an undifferentiated state. Because FGF basic is unstable; daily media changes are needed. The thermostable FGF basic that supports a 2-day media change schedule; so no media changes are required over a weekend. This thermostable FGF basic was more stable than FGF basic in biochemical studies; and maintained cell growth; pluripotency and differentiation potential with a 2-day feeding schedule.

### For Research Use Only

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