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

Catalog Number: PKSH033503



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

### **Description**

**Synonyms** Fibroblast growth factor 2;FGF-2;Basic fibroblast growth factor;bFGF;Heparin-

binding growth factor 2;HBGF-2;FGF2;FGFB

Species Human
Expression Host E.coli

SequenceMet1-Ser155AccessionBAG70135.1Calculated Molecular Weight17.2 kDaObserved molecular weight17 kDaTagNone

# **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin**  $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$ 

Storage Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

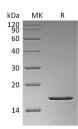
**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 200mM NaCl, pH 7.5.

**Reconstitution** Not Applicable

### Data



> 95 % as determined by reducing SDS-PAGE.

## **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.

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