# Recombinant Human FGF-2/FGF basic/FGFb Protein (aa 1-155)(Q65I,C96S,N111G)



Catalog Number:PKSH033502

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

Met1-Ser155 **Sequence** BAG70264.1 Accession Calculated Molecular Weight 17.2 kDa Observed molecular weight 16 kDa Tag None

# **Properties**

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

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to Storage

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs. **Formulation** 

Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 5% sucrose, 0.02%

Tween 80, pH 8.0.

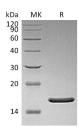
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information

Please refer to the printed manual for detailed information. Reconstitution

#### 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

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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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