

## 32-8373: Recombinant Human Fibroblast Growth Factor 2/FGF-2/bFGF (Q65I,C96S,N111G)

**Gene :** LEFTY1  
**Gene ID :** 10637  
**Uniprot ID :** O75610

### Description

Source: E. coli.  
MW :17.2kD.

Recombinant Human Thermostable Fibroblast Growth Factor 2(Q65I,C96S,N111G) is produced by our E.coli expression system and the target gene encoding Met1-Ser155 is expressed. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM Tris,200mM NaCl, pH7.5.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MAAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLIAEERGVSIIK GVCANRYLAMKEDGRLLASKSVTDECFERLESNGYNTYRSRKYTSWYVALKRTGQYKLGSKTGPQKAILFL PMSAKS

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.