

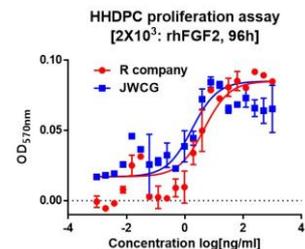
## DATA SHEET

### Product Information

<b>Product Name</b>	: <b>Recombinant Human Fibroblast Growth Factor 2 (rhFGF2)</b>
<b>Synonyms</b>	: Basic fibroblast growth factor, FGFb, Heparin binding growth factor 2, HBGF2
<b>Description</b>	: bFGF is a critical component of human embryonic stem cell culture medium; the growth factor is necessary for the cells to remain in an undifferentiated state, although the mechanisms by which it does this are poorly defined. It has been demonstrated to induce gremlin expression which in turn is known to inhibit the induction of differentiation by bone morphogenetic proteins. It is necessary in mouse-feeder cell dependent culture systems, as well as in feeder and serum-free culture systems.. After differentiation, BMP4 and FGF2 treated cells generally produces higher amounts of osteogenic and chondrogenic differentiation than untreated stem cells. (Ref. From Wikipedia)
<b>NCBI Accession No.</b>	: NM_002006
<b>Amino acid sequence</b>	: MTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDP HIKLQLQAEERGVVSIKGVCANRYLAMKEDGRLLASKCVTDECEFFERLESN NYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
<b>Molecular Mass</b>	: 16.72 kDa (149 aa)
<b>Protein Tags</b>	: No tagging
<b>Source</b>	: <i>E. coli</i> .
<b>Cat. No.</b>	: JW-H007-0010, JW-H007-0025, JW-H007-0050, JW-H007-0100, JW-H007-0250, JW-H007-0500, JW-H007-1000
<b>Storage</b>	: Should be at $\leq -70$ °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
<b>Cross Reactivity</b>	: Cow, Dog, Frog, Hamster, Monkey, Mouse, Pig, Rabbit, Rat, Sheep

### Quality Control

Test items	Specifications
<b>Appearance</b>	: Clear, colorless liquid
<b>Purity</b>	: Greater than 98 % by RP-HPLC and SDS-PAGE
<b>Specificity</b>	: Using Western blot, detection
<b>Concentration</b>	: 0.1 mg/ml, Bradford method  Determined by proliferation of Balb/3T3 indicator cells.
<b>Biological Activity</b>	: The ED50 is <0.6ng/ml, corresponding to a specific activity of $> 1.6 \times 10^6$ U/mg
<b>Endotoxin</b>	: Less than 0.2 EU/ $\mu$ g as determined by the LAL method
<b>Formulation</b>	: 50mM sodium citrate-citric acid, 5% glycerol (pH 5.5) without preservative or carrier proteins.
<b>Stability</b>	: Stable for up to 12 months at $-70$ °C. Stable for a month at 4 °C.
<b>Sterility</b>	: Sterilized through a 0.2 $\mu$ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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