

## Heat Stable FGF-basic Protein, Human

<b>Cat. No.:</b>	HY-P701242
<b>Synonyms:</b>	Fibroblast growth factor 2; FGF-2; Basic fibroblast growth factor; bFGF; Heparin-binding growth factor 2; HBGF-2; FGF2; FGFB
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P09038-4 (A135-S288) with an N-terminal M and several site mutations
<b>Gene ID:</b>	2247
<b>Molecular Weight:</b>	Approximately 17.1 kDa

### PROPERTIES

<b>AA Sequence</b>	/
<b>Biological Activity</b>	Measure by its ability by a dose-response proliferation assay using human 3T3 cells. The ED <sub>50</sub> for this effect is <0.25 ng/mL. The specific activity of this protein is > 4.0 × 10 <sup>6</sup> IU/mg. (It is recommended to experimentally determine the optimal concentration for each specific application by performing a dose response assay.)
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in PBS. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Initiation of FGF basic, also known as bFGF (fibroblast growth factor basic), occurs at an alternative CUG codon. This alternative start codon represents a distinctive feature in the translational initiation of the protein, contributing to the unique regulatory mechanisms governing the expression and functional properties of FGF basic.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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