

## Fibroblast Growth Factor-basic Rat Recombinant

<b>Item Number</b>	rAP-2223
<b>Synonyms</b>	HBGH-2, HBGF-2, Prostatropin, FGF-2, FGB-b, Fibroblast Growth Factor-basic, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2.
<b>Description</b>	bFGF Rat Recombinant (FGF-2) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16.4 kDa. The bFGF2 is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P13109
<b>Amino Acid Sequence</b>	MPALPEDGGGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHV KLQLQAEERG VVSIGVCAN RYLAMKEDGR LLASKCVTEE CFFFERLESN NYNTYRSRKY SSWYVALKRT GQYKLG- SKTG PGQKAILFLP MSAKS.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Rat bFGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Rat FGF-2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	FGF-b was lyophilized from 1mg/ml solution after extensive dialysis against 10mM Na <sub>2</sub> PO <sub>4</sub> , pH 7.5 and 50mM NaCl. Greater than 97.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Rat bFGF in sterile 18MΩ-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The ED <sub>50</sub> range as determined by the dose-dependant proliferation of 3T3 cells was found to be less than 0.13-0.2ng/ml.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**