



Fibroblast Growth Factor Basic 147 a.a. Human Recombinant

Item Number	rAP-2220
Synonyms	Prostatropin, HBGH-2, HBGF-2, FGF-2, FGF-b.
Description	Fibroblast Growth Factor-2 Human Recombinant (FGF-2) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 147 amino acids and having a molecular mass of 16.5kDa. The FGF2 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P09038
Amino Acid Sequence	MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAEERGVVSIKGVCA NRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TGGGQKAILF LPMSAKS.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized basic-FGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGFb 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.
Formulation and Purity	The bFGF was lyophilized from a sterile filtered solution containing 10mM sodium phosphate, 75mM sodium chloride, pH 7.5. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized FGF-B in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50, Calculated by the dose- dependent proliferation of mouse BALB/c 3T3 cells is 0.018-0.027ng/ml corresponding to a specific activity of 5.6x10 ⁷ units/mg.
Shipping Format and Condition	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**