

Fibroblast Growth Factor-Basic Human Recombinant, Plant

Item Number	rAP-2200
Synonyms	Prostatropin, HBGH-2, HBGF-2, FGF-2, FGF-b, Fibroblast growth factor 2, Basic fibroblast growth factor, Heparin-binding growth factor 2.
Description	FGF-2 Human Recombinant produced in rice is a single, non-glycosylated polypeptide chain containing 146 amino acids and having a molecular mass of ~17kDa. The FGF-b protein is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P09038
Amino Acid Sequence	
Source	Rice Grain (Oryza Sativa).
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Fibroblast Growth Factor-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-b 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	FGF-b was lyophilized from a concentrated solution without any additives. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor Basic in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ , as calculated by the dose-dependent proliferation of Balb/c 3T3 cells expressing FGF receptors is <1 ng/ml, corresponding to a specific activity of >1 x10 ⁶ 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**