

## Fibroblast Growth Factor-9 Human Recombinant

<b>Item Number</b>	rAP-2215
<b>Synonyms</b>	GAF (Glia-activating factor), HBGF-9, MGC119914, MGC119915, FGF-9.
<b>Description</b>	Fibroblast Growth Factor-9 Human Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 207 amino acids and having a molecular mass of 23.4 kDa. The FGF-9 is purified by proprietary chromatographic techniques.
<b>Uniprot Accesion Number</b>	P31371
<b>Amino Acid Sequence</b>	APLGEVGNFY GVQDAVPFGN VPVLPVDSPV LLSDHLGQSE AGGLPRGPAVTDLDHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIAVGLVSIRGVD SGLYLG MNEK GELYGSEKLT QECVFREQFE ENWYNTYSSNLYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELYKDILSQS.
<b>Source</b>	Escherichia coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered white lyophilized powder. Lyophilized Fibroblast Growth Factor 9 Human Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-9 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>	The sterile protein powder is lyophilized from 1mg/ml solution containing 1xPBS. Greater than 95.0% as determined by RP-HPLC and SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-9 Human Recombinant sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The ED50, calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by 3H-thymidine uptake) is <math>0.5\text{ng/ml}</math>, corresponding to a specific activity of 2,000,000 Units/mg.
<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**