

Fgf9

Recombinant Mouse Fibroblast Growth Factor 9

Catalog No.	CRF015A CRF015B CRF015C	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	Glia activating factor (GAF), Heparin-binding growth factor -9 (HBGF-9)		
Description:	Fibroblast growth factor 9 (FGF-9) is a member of the fibroblast growth factor (FGF) family which is encoded by the FGF-9 gene. It plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. In addition, this protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. Furthermore, FGF-9 is a monomer and interacts with FGFR1, FGFR2, FGFR3 and FGFR4. Recombinant mouse FGF-9 is a heparin-binding protein which is synthesized as a 208 a.a. precursor that contains a 3 a.a. signal sequence. Specifically, the mouse FGF-9 shares 99% a.a. sequence identity with rat FGF-9.		
Gene ID:	14180		
Source:	<i>E. coli</i>		
Molecular Weight:	23.3 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris + 500 mM NaCl, pH 8.5.		
Purity:	>95% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	Less than 1EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml.		
Specific Activity:	≥ 2.0 x 10 ⁶ IU/mg		
Amino Acid Sequence:	MPLGEVGSYF GVQDAVPFGN VPVLPVDSPV LLNDHLGQSE AGGLPRGPAV TLDHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA VGLVSIRGVD SGLYLG MNEK GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY KDILSQS		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

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