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Fgf1
Recombinant Mouse / Rat Fibroblast Growth Factor 1

Catalog No.	CRM564A	**Quantity:**	50 µg
	CRM564B		100 µg
	CRM564C		1.0 mg
	CRM564D		500 µg

Alternate Names: Fibroblast growth factor 1, FGF-1, Acidic fibroblast growth factor, aFGF, Heparin-binding growth factor 1, HBGF-1

Description: Fibroblast growth factor 1 (acidic FGF-1is a member of the fibroblast growth factor family. The biological activity of FGF-1 protein is exerted through binding to four high affinity cell surface receptors (FGFR1–4), which results in receptor dimerization and transphosphorylation in the tyrosine kinase domain. FGF-1 protein shows a wide range of endocrine-like activities. As a multiple function growth factor, this protein is involved in embryo development and tissue repair. Additionally, this protein is considered to function in several important physiological and pathological processes, such as embryonic development, morphogenesis, angiogenesis, wound healing and atheromatosis, and carcinogenesis.

UniProt ID: P61148

Accession Number: NP_034327.1

Protein Construction: A DNA sequence encoding the mature form of mouse FGF-1 (Phe16-Asp155) was expressed. Mouse and Rat FGF-1 share 100% sequence identity.

Source: E. coli

Formulation: Lyophilized from sterile 50mM Na2SO4, 0.5mM DTT, 1mM EDTA, 20mM Tris, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The rmFGF-1 consists of of 141 aa with a predicted MW of 16 kDa and mirgates as predicted, in SDS-PAGE under reducing conditions.

Purity: > 90 % as determined by SDS-PAGE.

Biological Activity: Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.04-0.2 ng/mL.

Predicted N-terminal: Met

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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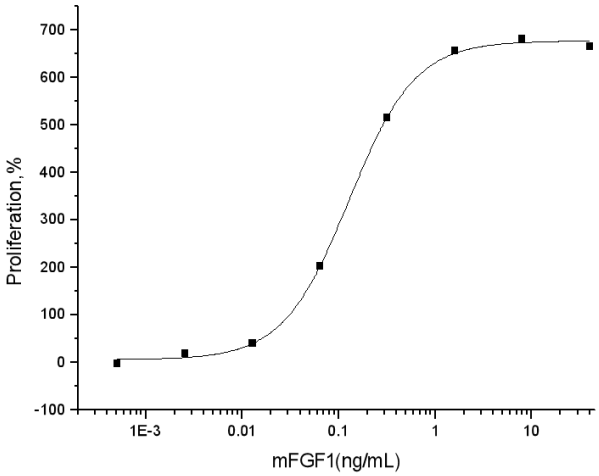
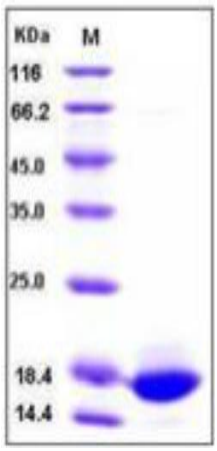


SDS-PAGE



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