

FGF-1 Protein, Canine

Cat. No.:	HY-P75194
Synonyms:	Multifunctional fusion protein; HBGF-1; ECGF; FGF1; FGF-a; FGF-acidic
Species:	Canine
Source:	E. coli
Accession:	J9NTP4 (F16-D155)
Gene ID:	607724
Molecular Weight:	Approximately 16 kDa

PROPERTIES

AA Sequence	<pre> F N L P P G N Y M K P K L L Y C S N G G H F L R I L P D G T V D G T R D R S D Q H I Q L Q L S A E S V G E V Y I K S T E T G Q Y L A M D T D G L L Y G S Q T P N E E C L F L E R L E E N H Y N T Y T S K K H A E K N W F V G L K K N G S C K R G P R T H Y G Q K A I L F L P L P V S S D </pre>
Biological Activity	Measured in a cell proliferation assay using NIH-3T3 mouse fibroblast cells. The ED ₅₀ for this effect is 0.2335 ng/mL, corresponding to a specific activity is 4.28×10 ⁶ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The FGF-1 protein plays a pivotal role in regulating important cellular processes such as cell survival, division, angiogenesis, differentiation, and migration. In vitro, it exhibits potent mitogenic properties and acts as a ligand for both FGFR1 and integrins. When heparin is present, FGF-1 binds to FGFR1, resulting in the dimerization and activation of FGFR1 through autophosphorylation on tyrosine residues. These phosphorylated residues serve as docking sites for interacting proteins, initiating various signaling cascades. FGF-1 also binds to integrins and forms a ternary complex with integrins and FGFR1,
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which is crucial for FGF-1 signaling.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA