FGF-9 Protein, Human (HEK293, N-hFc)

Cat. No.:	HY-P73053A
Synonyms:	Fibroblast growth factor 9; FGF-9; GAF; HBGF-9
Species:	Human
Source:	HEK293
Accession:	NP_002001.1 (L4-S208)
Gene ID:	2254
Molecular Weight:	Approximately 54&37 kDa

PROPERTIES

AA Sequence	L G E V G N Y F G V Q D A V P F G N V P V L P V D S P V L L S D H L G Q S E A G G L P R G P A V T D L D H L K G I L R R R Q L Y C R T G F H L E I F P N G T I Q G T R K D H S R F G I L E F I S I A V G L V S I R G V D S G L Y L G M N E K G E L Y G S E K L T Q E C V F R E Q F E E N W Y N T Y S S N L Y K H V D T G R R Y Y V A L N K D G T P R E G T R T K R H Q K F T H F L P R P V D P D K V P E L Y K D I L S Q S
Biological Activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED_{50} this effect is 3.362 ng/mL, corresponding to a specific activity is 2.974×105 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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-9 Protein, belonging to the fibroblast growth factor (FGF) family, exhibits broad mitogenic and cell survival activities, participating in various biological processes such as embryonic development, cell growth, morphogenesis, tissue repair, and tumor growth and invasion. Originally identified as a secreted factor with growth-stimulating effects on cultured

glial cells, this protein is predominantly produced by neurons in the nervous system, suggesting its importance in glial cell development. The expression of the mouse homolog of FGF-9 is contingent on Sonic hedgehog (Shh) signaling, and its absence in mice led to a male-to-female sex reversal phenotype, indicating a role in testicular embryogenesis. Noteworthy is the biased expression of FGF-9, with elevated levels detected in the kidney (RPKM 6.4), adrenal (RPKM 2.1), and 10 other tissues, underscoring its potential significance in various physiological contexts across multiple organs.

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