

FGF-9 Protein, Human (HEK293, Fc, solution)

Cat. No.:	HY-P73053
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	<pre> 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 </pre>
Biological Activity	Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblasts and the ED ₅₀ is typically 10-60 ng/mL.
Appearance	Solution
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	<p>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</p>
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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.

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

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