

## Animal-Free FGF-9 Protein, Human (His)

<b>Cat. No.:</b>	HY-P700071AF
<b>Synonyms:</b>	Fibroblast growth factor 9; FGF-9; GAF; HBGF-9
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P31371 (M1-S208)
<b>Gene ID:</b>	2254
<b>Molecular Weight:</b>	Approximately 22.14 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>M P 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</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>K D I L S Q S</p>
<b>Biological Activity</b>	Measure by its ability to induce 3T3 cells proliferation. The ED <sub>50</sub> for this effect is <2 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>FGF-9 Protein assumes a pivotal role in governing embryonic development, cell proliferation, differentiation, and migration. Its involvement extends to diverse processes, including glial cell growth and differentiation during development, gliosis in the brain's repair and regeneration after injury, differentiation and survival of neuronal cells, and the promotion of growth in glial tumors. Operating as a monomer or homodimer, FGF-9 engages in intricate interactions with FGFR1, FGFR2, FGFR3, and FGFR4, forming molecular alliances critical for diverse cellular responses. The binding affinity between FGF-9 and its</p>
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receptors is potentiated by heparan sulfate glycosaminoglycans, acting as essential coreceptors. These interactions underscore the multifaceted and indispensable role of FGF-9 in orchestrating crucial cellular events across various physiological contexts.

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

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