

Bioactive

FGF9 (Human) Recombinant Protein

Catalog # P8607

Size 20 ug

Specification

Product Description	Human FGF9 recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	APLGEVGN YFGVQDAVPFGNVPVLPVDSPVLLSDHLGQSEAGGLPRGPAVTDLDHLKGILRRRQ LYCRTGFHLEIFPNGTIQGRKDHRSFGILEFISIAVGLVSIRGVDSGLYLG MNEKGELYGSEKLTQE CVFREQFEENWYNTYSSNLYKHVDTGRRYYVALNKDGTTPREGTRTKRHQKFTHFLPRPVDPAKV PELYKDILSQS
Host	Escherichia coli
Theoretical MW (kDa)	23.5
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	chromatography
Purity	> 95% as determined by (a) RP-HPLC.(b) SDS-PAGE.
Activity	ED ₅₀ < 0.5 ng/mL, calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by 3H-thymidine uptake), corresponding to a Specific Activity of 2 x 10 ⁶ Units/mg.
Storage Buffer	Protein(1 mg/mL) was lyophilized from a solution containing 1X PBS. Reconstitute the lyophilized powder in ddH ₂ O to 100 ug/mL.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

Gene Info — FGF9

Entrez GeneID [2254](#)

Protein Accession# [P31371](#)

Gene Name FGF9

Gene Alias GAF, HBFG-9, MGC119914, MGC119915

Gene Description fibroblast growth factor 9 (glia-activating factor)

Omim ID [600921](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. In nervous system, this protein is produced mainly by neurons and may be important for glial cell development. Expression of the mouse homolog of this gene was found to be dependent on Sonic hedgehog (Shh) signaling. Mice lacking the homolog gene displayed a male-to-female sex reversal phenotype, which suggested a role in testicular embryogenesis. [provided by RefSeq]

Other Designations OTTHUMP00000018804|fibroblast growth factor 9|glia-activating factor

Pathway

- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)

- [Hyperparathyroidism](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)