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# FGF-9

Catalog # PVGS1139

## Product Information

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| **Primary Accession** | P36364 |
| **Species** | Rat |
| **Sequence** | Leu4-Ser208 |
| **Purity** | > 95% as analyzed by SDS-PAGE<br>> 95% as analyzed by HPLC |
| **Endotoxin Level** | |
| **Biological Activity** | Fully biologically active when compared to standard. The $ED_{50}$ as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of > $2.0 \times 10^6$ IU/mg. |
| **Expression System** | E. coli |
| **Theoretical Molecular Weight** | 23.1 kDa |
| **Formulation** | Lyophilized from a 0.2 □m filtered solution in 20 mM Tris, 400 mM NaCl, pH 8.0. |
| **Reconstitution** | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. |
| **Storage & Stability** | Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles. |

## Additional Information

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| **Gene ID** | 25444 |
| **Other Names** | Fibroblast growth factor 9, FGF-9, Glia-activating factor, GAF, HBGF-9, Fgf9, Fgf-9 |
| **Target Background** | Fibroblast growth factor 9 (FGF-9) belongs to the large FGF family which has at least 23 members. All FGF family members are heparin binding growth factors with a core 120 amino acid (a.a.) FGF domain that allows for a common tertiary structure. FGF-9 targets glial cells, astrocytes cells and other cells that express the FGFR 1c, 2c, 3b, 3c, and 4. |

## Protein Information

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| **Name** | Fgf9 |
| **Synonyms** | Fgf-9 |
| **Function** | Plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. May have a role in glial cell growth and differentiation during development, gliosis during repair and regeneration of brain tissue after damage, differentiation and survival of neuronal cells, and growth stimulation of glial tumors. |
| **Cellular Location** | Secreted. |
| **Tissue Location** | Brain and kidney. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.