

## Product datasheet for **TP723102**

### FGF9 (NM\_002010) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Human fibroblast growth factor 9 (glia-activating factor) (FGF9).   |
| Species:                              | Human   |
| Expression Host:                      | E. coli   |
| Expression cDNA Clone or AA Sequence: | PLGEVGNFYFG VQDAVPFGNV PVLVDPSPVL LSDHLGQSEA GGLPRGPAVT DLDHLKGILR RRQLYCRTGF HLEIFPNGTI QGTRKDHSRF GILEFISIAV GLVSIRGVDS GLYLG MNEKG ELYGSEKLTQ ECVFREQFEE NWyNTYSSNL YKHVDTGRRY YVALNKDGTP REGTRTKRHQ KFTHFLPRPV DPKVPELYK DILSQS |
| Tag:                                  | Tag Free  |
| Predicted MW:                         | 23.2 kDa  |
| Concentration:                        | lot specific  |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2  |
| Bioactivity:                          | Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED50 is = 10 ng/ml, corresponding to a specific activity of = 1 × 10 <sup>5</sup> units/mg.   |
| Endotoxin:                            | Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)   |
| Storage:                              | Store at -80°C.   |
| Stability:                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.   |
| RefSeq:                               | <u><a href="#">NP_002001</a></u>  |
| Locus ID:                             | 2254  |
| UniProt ID:                           | <u><a href="#">P31371</a></u>   |
| RefSeq Size:                          | 1420  |
| Cytogenetics:                         | 13q12.11  |
| RefSeq ORF:                           | 624   |
| Synonyms:                             | FGF-9; GAF; HBFG-9; HBGF-9; SYNS3   |



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**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, Jul 2008]

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

**Product images:**