**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for TP501152

## Fgf1 (NM_010197) Mouse Recombinant Protein

### Product data:

| | |
|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Purified recombinant protein of Mouse fibroblast growth factor 1 (Fgf1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| **Species:** | Mouse |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >MR201152 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MAEGEITTFAALTERFNLPLGNYKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAESAGEVY IKGTETGQYLAMDTEGLLYGSQTPNEECLFLERLEENHYNTYTSKKHAEKNWFVGLKKNGSCKRGPRTHY GQKAILFLPLPVSSD<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-MYC/DDK |
| **Predicted MW:** | 17.4 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| **Note:** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| **Storage:** | Store at -80°C after receiving vials. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **RefSeq:** | NP_034327 |
| **Locus ID:** | 14164 |
| **UniProt ID:** | P61148, Q6ZWS1 |
| **RefSeq Size:** | 3909 |
| **Cytogenetics:** | 18 20.74 cM |

View online »

**RefSeq ORF:** 468

**Synonyms:** Dffrx; Fam; Fgf-1; Fgfa

**Summary:** Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Acts as a ligand for FGFR1 and integrins. Binds to FGFR1 in the presence of heparin leading to FGFR1 dimerization and activation via sequential autophosphorylation on tyrosine residues which act as docking sites for interacting proteins, leading to the activation of several signaling cascades. Binds to integrin ITGAV:ITGB3. Its binding to integrin, subsequent ternary complex formation with integrin and FGFR1, and the recruitment of PTPN11 to the complex are essential for FGF1 signaling. Induces the phosphorylation and activation of FGFR1, FRS2, MAPK3/ERK1, MAPK1/ERK2 and AKT1. Can induce angiogenesis.[UniProtKB/Swiss-Prot Function]