

## Product datasheet for TP525708

### Fgfr1 (NM\_010206) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Mouse fibroblast growth factor receptor 1 (Fgfr1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >MR225708 representing NM\_010206  
Red=Cloning site Green=Tags(s)

MWGWKCLLFWAVLVTATLCTARPAPTLPEQAQPWGVPEVESLLVHPGDLLQLRCRLRDDVQSINWLRDG  
VQLVESNRTRITGEEVEVRDSIPADSGLYACVTSSPSGSDTTYFSVNVSDALPSEDDDDDDSSSEEKE  
TDNTKPNRRPVAPYWTSPEKMEKKLHAVPAAKTVKFKCPSGTPNPTLRWLKNGKEFKPDHRIGGYKVRY  
ATWSIIMDSVWPSDKGNVYTCIVENEYGSINHTYQLDVVERSPHRPILQAGLPANKTVALGSNVEFMCKVY  
SDPQPHIQWLKHIEVNGSKIGPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLS  
HSAWLTVLEALEERPAVMTSPYLEIIIIYCTGAFLISCM LGSVIIYKMKSGTKKSDFFHSQMAVHKLAKS  
IPLRRQVTVSADSSASMNSGVLLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFG  
QVVLAEAIGLDKDKPNRVTKVAVKMLKSDATEKDLSDLISEMEMMMKMGKHKNIINLLGACTQDGPLYVI  
VEYASKGNLREYLQARRPPGLECYNPSHNPEEQLSKDLVSCAYQVARGMEYLASKKCIHRDLAARNVL  
VTEDNVMKIADFLARDIHHIDYYKTTNGRLPVKWMapeALFDRIYTHQSDVWSFGVLLWEIFTLGGSP  
YPGVPVEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLS  
IPLDQYSPSPDTRSSTCSSGEDSVFSHEPLPEEPCLPRHPTQLANSGLKRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-MYC/DDK

**Predicted MW:** 92.4 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.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_034336</a>
<b>Locus ID:</b>	14182
<b>UniProt ID:</b>	<a href="#">P16092</a> , <a href="#">Q8CBY7</a>
<b>RefSeq Size:</b>	5008
<b>Cytogenetics:</b>	8 14.12 cM
<b>RefSeq ORF:</b>	2466
<b>Synonyms:</b>	AW208770; bFGF-R-1; c-fgr; Eask; Fgfr-1; FGFR-I; FLG; Flt-2; Hspy; MFR
<b>Summary:</b>	<p>Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of embryonic development, cell proliferation, differentiation and migration. Required for normal mesoderm patterning and correct axial organization during embryonic development, normal skeletogenesis and normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Phosphorylates PLCG1, FRS2, GAB1 and SHB. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Promotes phosphorylation of SHC1, STAT1 and PTPN11/SHP2. In the nucleus, enhances RPS6KA1 and CREB1 activity and contributes to the regulation of transcription. FGFR1 signaling is down-regulated by IL17RD/SEF, and by FGFR1 ubiquitination, internalization and degradation (By similarity).[UniProtKB/Swiss-Prot Function]</p>