

## Product datasheet for TP510178

### Fgfr2 (BC091652) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse fibroblast growth factor receptor 2 (cDNA clone MGC:102519 IMAGE:5349249), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR210178 representing BC091652 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MVSWGRFICLVLTMATLSLARPSFSLVEDTTLEPEGAPYWTNTEKMEKRLHAVPAANTVKFRCPAGGNP TPTMRWLKNGKEFKQEHRIGGYKVRNQHWSLIMESVVP SDKGNYTCLVENEYGSINHTYHLDVVERSPHR PILQAGLPANASTVVGDDVEFVCKVYSDAQPHIQWIKHVEKNGSKY GPDGLPYLKV LKHSGINSSNAEVL ALFNVTEMDAGEYICKVSNYIGQANQSAWLTVLPKQQAPVREKEITASPDYLEIAIYCIGVFLIACMVVT VIFCRMKTTTTKKPDFSSQPAVHKLTKRIPLRRQVTVSAESSSSMNSNTPLVRITRSLSTADTPMLAGVS EYELPEDPKWEFPRDKLT LGKPLGEGCFGQVVM AEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSE MEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLRARRPPGMEYSYDINRVPEEQMTFKDLV SCTYQLARGMEYLASQKCIHRDLAARNVLVTENNVMKIADFG LARDINNIDYKTTNGRLPVKWM APEA LFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPVVEELFKLLKEGHRMDKPTNCTNELYMMMRDCWHAVP SQRPTFKQLVEDLDRILTLTTNEEYLDLTQPLEQYSPSPDTRSSCSSGDDSVFSPDPMPYEPCLPQYPH INGSVKT</p> <p><b>SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	156.5 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	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>Locus ID:</b>	14183
<b>UniProt ID:</b>	<a href="#">P21803</a>
<b>RefSeq Size:</b>	4271
<b>Cytogenetics:</b>	7 F3
<b>RefSeq ORF:</b>	2121
<b>Synonyms:</b>	KGFRTr
<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 cell proliferation, differentiation, migration and apoptosis, and in the regulation of embryonic development. Required for normal embryonic patterning, trophoblast function, limb bud development, lung morphogenesis, osteogenesis and skin development. Plays an essential role in the regulation of osteoblast differentiation, proliferation and apoptosis, and is required for normal skeleton development. Promotes cell proliferation in keratinocytes and immature osteoblasts, but promotes apoptosis in differentiated osteoblasts. Phosphorylates PLCG1, FRS2 and PAK4. 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. FGFR2 signaling is down-regulated by ubiquitination, internalization and degradation. Mutations that lead to constitutive kinase activation or impair normal FGFR2 maturation, internalization and degradation lead to aberrant signaling. Over-expressed FGFR2 promotes activation of STAT1.[UniProtKB/Swiss-Prot Function]</p>