

## Product datasheet for PH302080

### FGFR1 (NM\_023110) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	FGFR1 MS Standard C13 and N15-labeled recombinant protein (NP_075598)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202080
Predicted MW:	89.4 kDa
Protein Sequence:	>RC202080 representing NM_023110 Red=Cloning site Green=Tags(s)

MWSWKCLLFWAVLVATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQVSINWLRDG  
VQLAESNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSEDDDDDDSSSEEKE  
TDNTKPNRMPVAPYWTSPKMEKHLHAVPAAKTVKFKCPSGTPNPTLRWLKNGKEFKPDHRIGGYKVRY  
ATWSIIIMDSVVPKGNVTCIVENEYGSINHTYQLDIVERSPHRPILQAGLPANKTVALGNSNEFMCKVY  
SDPQPHIQWLKHIEVNGSKIGPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLS  
HHSAWLTVLEALEERPAMTSPLYLEIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFFHSQMAVHKLAKS  
IPLRRQVTVSADSSASMNSGVLLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFG  
QVVLAEAIGLDKDKPNRVTKVAVKMLKSDATEKDLSDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVI  
VEYASKGNLREYLQARRPPGLECYNPSHNPEEQSSKDLVSCAYQVARGMEYLASKKCIHRDLAARNVL  
VTEDNVMKIADFLARDIHHIDYKKTNGRLPVKWMPEALFDRIYTHQSDVWVSGVLLWEIFTLGGSP  
YPGVPVEELFKLLKEGHRMDKPSNCTNELYMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLS  
MPLDQYSPSPDTRSTCSSGSDSVFSHEPLPEEPCLPRHPAQLANGGLKRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_075598</a>



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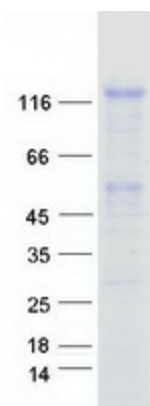
RefSeq Size:	5917
RefSeq ORF:	2466
Synonyms:	bFGF-R-1; BFGFR; CD331; CEK; ECCL; FGFBR; FGFR-1; FLG; FLT-2; FLT2; HBGFR; HH2; HRTFDS; KAL2; N-SAM; OGD
Locus ID:	2260
UniProt ID:	<a href="#">P11362</a>
Cytogenetics:	8p11.23

**Summary:** The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:** Adherens junction, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

### Product images:



Coomassie blue staining of purified FGFR1 protein (Cat# [TP302080]). The protein was produced from HEK293T cells transfected with FGFR1 cDNA clone (Cat# [RC202080]) using MegaTran 2.0 (Cat# [TT210002]).