

Product datasheet for **TP311740M**

PDGF Receptor alpha (PDGFRA) (NM_006206) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human platelet-derived growth factor receptor, alpha polypeptide (PDGFRA), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211740 representing NM_006206 Red =Cloning site Green =Tags(s)

MGTSHPAFLVLGCLLTGLSLILCQLSLPSILPNENEKVVQLNSSFSLRCFGESEVSWQYPMSEEESSDVE
IRNEENNSGLFVTVLEVSSASAAHTGLYTCYNNHTQTEENELEGRHIYIYVDPDVAFVPLGMTDYLVIV
EDDDSAIIPCRITDPETPVLHNSGVPASYDSRQGFNGTFTVGPYICEATVKGKKFQTIPFNVYALKA
TSELDLEMEALKTVYKSGETIVTCAVFNNEVVDLQWYTPGEVKGKGITMLEEIKVPSIKLVYTLTVPEA
TVKDSGDYECARQATREVKEMKKVTISVHEKGFIEIKPTFSQLEAVNLHEVKHFVVEVRAYPPPRISWL
KNNLTLIENLTEITTDVEKIQEIRYRSKLLIRAKEEDSGHYTIVAQNEDAVKSYTFELLTQVPSSILD
VDDHHGSTGGQTVRCTAEGTLPDIEWMICKDIKKCNNETSWTILANNVSNIIITEIHSRDRSTVEGRVTF
AKVEETIAVRCLAKNLLGAENRELKLVAPTLRSELVAAAVLVLLVIVIIISLIVLWVWKQKPRYEIRWR
VIESISPDGHEYIYVDPMQLPYDSRWEFPRDGLVLGRVLGSGAFGKVVETAYGLSRSQPVMKVAVKMLK
PTARSSEKQALMSELKIMTHLGPLNIVNLLGACTKSGPIYIITEYCFYGLVNYLHKNRDSFLSHHPEK
PKKELDIFGLNPADESTRSYVILSFENNGDYMDMKQADTTQYVPMERKEVSKYSDIQRSLYDRPASYKK
KSMLDSEVKNLLSDDNSEGLTLLDLSFTYQVARGMEFLASKNCVHRDLAARNVLLAQGKIVKICDFGLA
RDIMHDSNYVSKGSTFLPVKWMAPESIFDNLTYTTLSDVWSYGILLWEIFSLGGTPYPGMMVDSTFYNKIK
SGYRMAKPDHATSEVYEIMVKCWNSEPEKRPFSYHLSEIVENLLPGQYKKSYEKIHLDFLKSHPAVARM
RVDSDNAYIGVTYKNEEDKLDWEGGLDEQRSLADSGLYIPLPDIDPVPEEEDLGKRNHRSSQTSEESAI
ETGSSSSTFIKREDETIEDIDMMDDIGIDSSDLVEDSFL

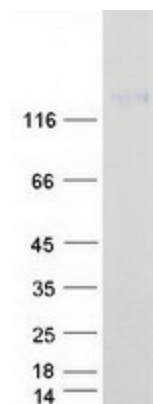
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	120.3 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



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
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_006197
Locus ID:	5156
UniProt ID:	P16234
RefSeq Size:	6405
Cytogenetics:	4q12
RefSeq ORF:	3267
Synonyms:	CD140A; PDGFR-2; PDGFR2
Summary:	This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies suggest that this gene plays a role in organ development, wound healing, and tumor progression. Mutations in this gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers. [provided by RefSeq, Mar 2012]
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
Protein Pathways:	Calcium signaling pathway, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

Product images:

Coomassie blue staining of purified PDGFRA protein (Cat# [TP311740]). The protein was produced from HEK293T cells transfected with PDGFRA cDNA clone (Cat# [RC211740]) using MegaTran 2.0 (Cat# [TT210002]).