

## Product datasheet for TP311740L

### 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), 1 mg
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  
VIESISPDGHEYIYVDPMQLPYDSRWEFPRDGLVLRVLSGAFGKVVETAYGLSRSQPVMKVAVKMLK  
PTARSSEKQALMSELKIMTHLGPLNIVNLLGACTKSGPIYIITEYCFYGLVNYLHKNRDSFLSHHPEK  
PKKELDIFGLNPADESTRSYVILSFENNGDYMDMKQADTTQYVPMERKEVSKYSDIQRSLYDRPASYKK  
KSMLDSEVKNLLSDDNSEGLTLLDLSFTYQVARGMEFLASKNCVHRDLAARNVLLAQGKIVKICDFGLA  
RDIMHDSNYVSKGSTFLPVKWMAPESIFDNLTYTTLSDVWSYGILLWEIFSLGGTPYPGMMVDSTFYNKIK  
SGYRMAKPDHATSEVYEIMVKCWNSEPEKRPFSYHLSEIVENLLPGQYKKSIEKIHLDLFLKSDHPAVARM  
RVDSDNAYIGVTYKNEEDKLDWEGGLDEQRSLADSGYIIPDPIDPVPEEEDLGKRNHRSSQTSEESAI  
ETGSSSSTFIKREDETIEDIDMMDDIGIDSSDLVEDSFL

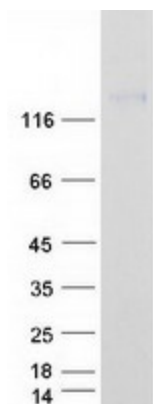
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<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.
<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_006197</a>
<b>Locus ID:</b>	5156
<b>UniProt ID:</b>	<a href="#">P16234</a>
<b>RefSeq Size:</b>	6405
<b>Cytogenetics:</b>	4q12
<b>RefSeq ORF:</b>	3267
<b>Synonyms:</b>	CD140A; PDGFR-2; PDGFR2
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	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]).