

## Product datasheet for **TP314164L**

### PDGF AA (PDGFA) (NM\_033023) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Homo sapiens platelet-derived growth factor alpha polypeptide (PDGFA), transcript variant 2, 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC214164 representing NM\_033023  
**Red**=Cloning site **Green**=Tags(s)

MRTLACLLLLGCGYLAHVLAEEAEIPREVIERLARSQIHSIRDQLRLLLEIDSVGSEDSLDTSLRAHGVHA  
TKHVPEKRPLPIRRKRSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCDEVKCRCTGCCNTSSVKC  
QPSRVHHRSVKVAKVEYVRKKPKLKEVQVRLEEHLACACATTSLNPDYREEDTDVR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 20.1 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

**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\\_148983](#)

**Locus ID:** 5154

**UniProt ID:** [P04085](#)



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RefSeq Size: 2749

Cytogenetics: 7p22.3

RefSeq ORF: 588

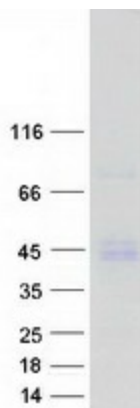
Synonyms: PDGF-A; PDGF1

**Summary:** This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit A, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit B. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

**Protein Families:** Druggable Genome

**Protein Pathways:** Cytokine-cytokine receptor interaction, 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 PDGFA protein (Cat# [TP314164]). The protein was produced from HEK293T cells transfected with PDGFA cDNA clone (Cat# [RC214164]) using MegaTran 2.0 (Cat# [TT210002]).