

# Recombinant Human platelet-derived growth factor alpha polypeptide Protein, HA tagged

**Cat. No.** PDGFA-54H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PDGFA Protein (87-211aa) with N-HA tag was expressed in Yeast (animal free media and environment).                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 87-196 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | 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. |
| <b>Tag</b>              | N-HA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 15.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | YPYDVPDYASIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCNT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | SSVKCQPSRVHHRSVKVAKVEYVRKKPKLKEVQVRLEEHLACACATTSLNPDYREE<br>DTGRPRESGKKRKRRLKPT                                                                         |
| <b>Endotoxin</b>      | < 0.2 EU/μg of protein as determined by the LAL method.                                                                                                 |
| <b>Purity</b>         | 0.95                                                                                                                                                    |
| <b>Storage</b>        | Stable for at least one year at -20 centigrade. Upon reconstitution PDGFA can be stored at +4 centigrade for 2 weeks or at -20 centigrade for 6 months. |
| <b>Concentration</b>  | 120 μg/μL                                                                                                                                               |
| <b>Storage Buffer</b> | 20 mM potassium phosphate, pH 7.0                                                                                                                       |
| <b>Reconstitution</b> | Spin the vial briefly, add distilled sterile water.                                                                                                     |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PDGFA platelet-derived growth factor alpha polypeptide [Homo sapiens (human)]                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b> | PDGFA                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | PDGFA; platelet-derived growth factor alpha polypeptide; platelet-derived growth factor subunit A; PDGF A chain; PDGF A; PDGF1; platelet derived growth factor alpha chain; PDGF-1; PDGF A-chain; PDGF subunit A; platelet-derived growth factor A chain; platelet-derived growth factor alpha chain; platelet-derived growth factor alpha isoform 2 preproprotein; PDGF-A |
| <b>Gene ID</b>         | 5154                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_002607                                                                                                                                                                                                                                                                                                                                                                  |

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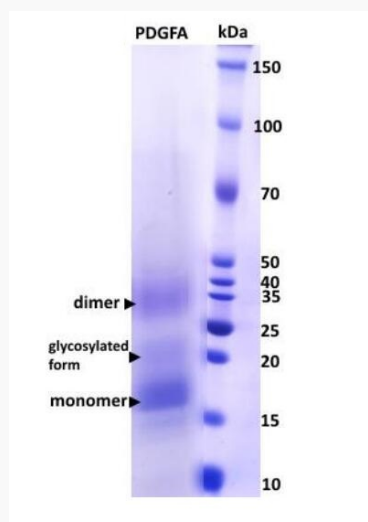
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**Protein Refseq** NP\_002598

**MIM** 173430

**UniProt ID** P04085

#### SDS-PAGE



PDGFA was loaded and resolved on 8-22 % SDS-PAGE under reducing conditions and stained with Coomassie G-250.

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