

# **Product datasheet**

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# ARG82639 Human PDGF AA ELISA Kit

Package: 96 wells Store at: 4°C

# Component

| Cat. No.     | Component Name                        | Package              | Temp  |
|--------------|---------------------------------------|----------------------|---|
| ARG82639-001 | Antibody-coated microplate            | 8 X 12 strips        | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG82639-002 | Standard                              | 2 X 10 ng/vial       | 4°C   |
| ARG82639-003 | Standard/Sample<br>diluent            | 30 ml (Ready to use) | 4°C   |
| ARG82639-004 | Antibody conjugate concentrate (100X) | 1 vial (100 μl)      | 4°C   |
| ARG82639-005 | Antibody diluent<br>buffer            | 12 ml (Ready to use) | 4°C   |
| ARG82639-006 | HRP-Streptavidin concentrate (100X)   | 1 vial (100 μl)      | 4°C   |
| ARG82639-007 | HRP-Streptavidin diluent buffer       | 12 ml (Ready to use) | 4°C   |
| ARG82639-008 | 25X Wash buffer                       | 20 ml                | 4°C   |
| ARG82639-009 | TMB substrate                         | 10 ml (Ready to use) | 4°C (Protect from light)  |
| ARG82639-010 | STOP solution                         | 10 ml (Ready to use) | 4°C   |
| ARG82639-011 | Plate sealer                          | 4 strips             | Room temperature  |
|              |                                       |                      |   |

#### Summary

| Product Description | ARG82639 Human PDGF AA ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human PDGF AA in serum, plasma (EDTA, heparin) and cell culture supernatants. |  |  |
|---------------------|---|--|--|
| Tested Reactivity   | Hu  |  |  |
| Tested Application  | ELISA   |  |  |
| Specificity         | There is no detectable cross-reactivity with other relevant proteins.   |  |  |
| Target Name         | PDGF AA   |  |  |
|                     |   |  |  |

Conjugation HRP

**Conjugation Note** Substrate: TMB and read at 450 nm.

Sensitivity 78 pg/ml

Sample Type Serum, plasma (EDTA, heparin) and cell culture supernatants.

156 - 10000 pg/ml Standard Range

Sample Volume 100 μΙ Precision Intra-Assay CV: 6.0%

Inter-Assay CV: 5.5%

~ 5 hours

Alternate Names Platelet-derived growth factor subunit A; PDGF subunit A; Platelet-derived growth factor alpha

polypeptide; Platelet-derived growth factor A chain; PDGF-1; PDGF-1; PDGF-A

### **Application Instructions**

Assay Time

#### **Properties**

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol PDGFA

Gene Full Name platelet-derived growth factor alpha polypeptide

Background 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]

Function Growth factor that plays an essential role in the regulation of embryonic development, cell

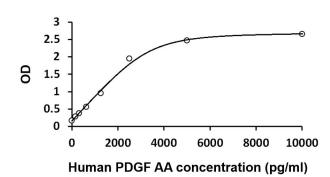
proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Required for normal lung alveolar septum formation during embryogenesis, normal development of the gastrointestinal tract, normal development of Leydig cells and spermatogenesis. Required for normal oligodendrocyte development and normal myelination in the spinal cord and cerebellum. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFB.

[UniProt]

Highlight Related products:

PDGF antibodies; PDGF ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData

Cellular Localization Secreted. Note=Released by platelets upon wounding. [UniProt]



# ARG82639 Human PDGF AA ELISA Kit standard curve image

ARG82639 Human PDGF AA ELISA Kit results of a typical standard run with optical density reading at  $450 \ \text{nm}$ .