

# Product datasheet

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# ARG82517 Mouse PDGF CC ELISA Kit

Package: 96 wells Store at: 4°C

# Component

Cat. No.	Component Name	Package	Temp
ARG82517-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82517-002	Standard	2 X 10 ng/vial	4°C
ARG82517-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82517-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG82517-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82517-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG82517-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82517-008	25X Wash buffer	20 ml	4°C
ARG82517-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82517-010	STOP solution	10 ml (Ready to use)	4°C
ARG82517-011	Plate sealer	4 strips	Room temperature

## Summary

Product Description	ARG82517 Mouse PDGF CC ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse PDGF CC in serum, plasma (EDTA, heparin) and cell culture supernatants.			
Tested Reactivity	Ms			
Tested Application	ELISA			
Target Name	PDGF CC			
Conjugation	HRP			
Conjugation Note	Substrate: TMB and read at 450 nm.			
Sensitivity				
Sample Type				
Standard Range				
Sample Volume	100 μΙ			
Precision	Intra-Assay CV: 4.8% Inter-Assay CV: 6.3%			

#### Platelet-derived growth factor C; PDGFC latent form; PDGF-C

#### **Application Instructions**

**Assay Time** 

~ 5 hours

#### **Properties**

Form

96 well

Storage instruction

Store the kit at  $2-8^{\circ}$ 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

**PDGFC** 

Gene Full Name

platelet derived growth factor C

Background

The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a core motif of eight cysteines. This gene product appears to form only homodimers. It differs from the platelet-derived growth factor alpha and beta polypeptides in having an unusual N-terminal domain, the CUB domain. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2010]

Function

Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen and chemoattractant for cells of mesenchymal origin. Required for normal skeleton formation during embryonic development, especially for normal development of the craniofacial skeleton and for normal development of the palate. Required for normal skin morphogenesis during embryonic development. Plays an important role in wound healing, where it appears to be involved in three stages: inflammation, proliferation and remodeling. Plays an important role in angiogenesis and blood vessel development. Involved in fibrotic processes, in which transformation of interstitial fibroblasts into myofibroblasts plus collagen deposition occurs. The CUB domain has mitogenic activity in coronary artery smooth muscle cells, suggesting a role beyond the maintenance of the latency of the PDGF domain. In the nucleus, PDGFC seems to have additional function. [UniProt]

Highlight

Related products:

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

PTM

Proteolytic removal of the N-terminal CUB domain releasing the core domain is necessary for unmasking the receptor-binding epitopes of the core domain. Cleavage after basic residues in the hinge region (region connecting the CUB and growth factor domains) gives rise to the receptor-binding form. Cleaved by PLAT and PLG.

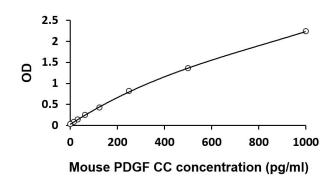
Sumoylated with SUMO1.

N-glycosylated. [UniProt]

Cellular Localization

Cytoplasm, cytosol. Secreted. Nucleus. Cytoplasmic granule. Cell membrane. Note=Sumoylated form is predominant in the nucleus (PubMed:15247255). Stored in alpha granules in platelets

(PubMed:15061151). [UniProt]



## ARG82517 Mouse PDGF CC ELISA Kit standard curve image

ARG82517 Mouse PDGF CC ELISA Kit results of a typical standard run with optical density reading at 450 nm.