

# **Product Datasheet**

## **RecombinantPDGF-AA, Mouse (orb1494779)**

Description	Platelet-Derived Growth Factor-AA (PDGF-AA) is one of five dimers (PDGF-AA, AB,	
	BB, CC, and DD) formed by 4 different PDGF subunits. In chemical terms,	
	platelet-derived growth factor is a dimeric glycoprotein composed of two A (-AA)	
	or two B (-BB) chains or a combination of the two (-AB). The dimeric isoforms	
	PDGFAA, AB and BB are differentially expressed in various cell types, and their	
	effects are mediated through two distinct recentors termed $\alpha$ and $\beta$ . Differences	
	evict in isoform hinding to each recenter. Ingeneral PDCE isoforms are notent	
	exist in isolorm binding to each receptor. Ingeneral, PDGF isolorms are potent	
	mitogens for connective tissue cells including dermal fibroblasts, glial cells,	
	arterial smooth muscle cells and some epithelial andendothelial cells. In addition	
	to its activity as a mitogen, PDGF is chemotactic for fibroblasts, smooth muscle	
	cells, neutrophils and mononuclear cells, PDGE-AA plays a significant role in	
	blood vessel formation (angiogenesis) Recombinant Mouse Platelet-Derived	
	Growth Factor (A) (DCF A) are dueed in F celline digulfide linked here diger	
	Growth Factor-AA(PDGF-AA) produced in E.coli is a disulfide-linked homodimer	
	containing two non-glycosylated polypeptide chains of 125 amino acids each. A	
	fully biologically active molecule, rmPDGF-AA has a molecular mass of 28.7 kDa	
	analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques	
	at GenScript.	
Endotoxins	< 0.2 EU/ $\mu$ g, determined by LAL method.	
Preservatives	Lyophilized after extensive dialysis against 1xPBS.	
<b>F</b>		
Form/Appearance	Lyophilized after extensive dialysis against TXPBS.	
Storage	Lyophilized recombinant Mouse Platelet-Derived Growth Factor-AA(PDGF-	
	AA)remains stable up to 6 months at -80°C from date of receipt. Upon	
	reconstitution, recombinant Mouse PDGF-AA should be stable up to 1 week at	
	$4^{\circ}$ C or up to 2 months at -20°C	
Note	For research use only	
Application notes	Reconstituted in ddH2O at 100 µg/ml.	
Protein Sequence	MSIEEAVPA VCKTRTVIYE IPRSQVDPTS ANFLIWPPCV EVKRCTGCCN TSSVKCQPSR	
	VHHRSVKVAK VEYVRKKPKL KEVQVRLEEH LECACATSNL NPDHREEETG	
	RRRESGKNRK RKRLKPT	

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Purity	> 95% as analyzed by SDS-PAGE.
Source	Escherichia coli.
MW	28.7 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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