

Canine PDGF-AA Protein



Cat. No. PDF-DY10A

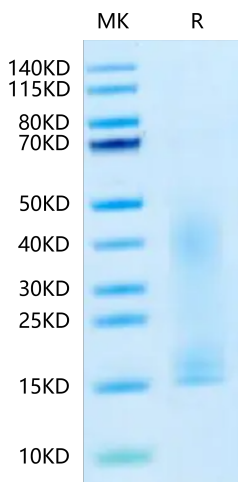
Description	
Source	Recombinant Canine PDGF-AA Protein is expressed from Yeast with His tag at the N-terminus. It contains Ser87-Arg196.
Accession	A0A8C0M6T8
Molecular Weight	The protein has a predicted MW of 13.62 kDa. Due to glycosylation, the protein migrates to 15-20 kDa and 35-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in 4mM HCL. Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in 4mM HCL. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Platelet-derived growth factors (PDGFs) may play an important role in the development of atherosclerosis acting as chemoattractants and mitogens for vascular smooth muscle cells and macrophages. PDGFA, the most known member of PDGF family, plays a crucial role in occurrence and progression of different tumors.	

Assay Data

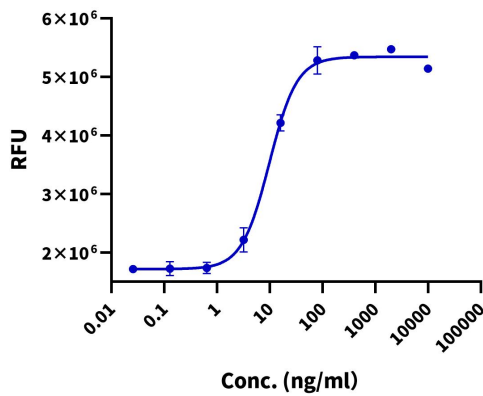
Bis-Tris PAGE



Canine PDGF-AA on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

Cell Based Assay

Recombinant Canine PDGF-AA Bioactivity



Measured in a cell proliferation assay using Balb/C 3T3 mouse embryonic fibroblasts. The ED50 for this effect is 5 - 15 ng/mL.