

Canine PDGFA Protein

Cat. No. PDF-DY10A

Description	
Source	Recombinant Canine PDGFA 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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 90% as determined by Tris-Bis PAGE

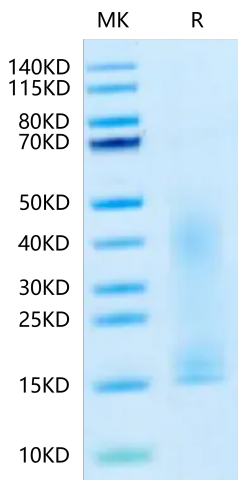
Formulation and Storage	
Formulation	Lyophilized from 0.22 μm filtered solution in 4mM HCL. Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in 4mM HCL.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days 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

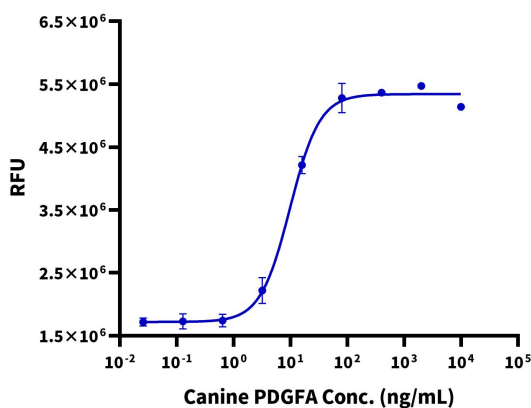
Tris-Bis PAGE



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

Cell Based Assay

Recombinant Canine PDGFA Bioactivity



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