

PDGFA Protein, Canine, Recombinant (hFc)

General Information

Synonyms:	platelet-derived growth factor α polypeptide; platelet-derived growth factor alpha polypeptide
Protein Construction:	A DNA sequence encoding the canine PDGFA (NP_001177101.1) (Ser87-Arg196) was expressed with the Fc region of human IgG1 at the N-terminus. Predicted N terminal: Glu
Species:	Canine
Expression Host:	HEK293 Cells
Accession:	A0A8C0M6T8
Molecular Weight:	41 kDa (predicted)

QC Testing

Biological Activity:	Measured in a cell proliferation assay using BALB/c 3T3 mouse fibroblasts. The ED50 for this effect is typically 5-25 ng/mL.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Platelet-derived growth factor alpha (PDGFA) is frequently upregulated in various cancers and thought to function as a key player in the development and progression of tumor growth by regulating aspects of cell proliferation, angiogenesis and metastasis. The human platelet-derived growth factor A chain gene (PDGFA) on chromosome 7p22 encodes an important mitogen. Within PDGFA lies a complex minisatellite structure that results in partial

duplications of exon 4 and the IVS4 splice donor site.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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