

PDGFA Protein, Human, Recombinant (His)

General Information

Synonyms:	PDGF1;PDGF-A;platelet-derived growth factor alpha polypeptide;platelet-derived growth factor α polypeptide
Protein Construction:	A DNA sequence encoding the human PDGFA (AAA60045.1) (Ser87-Thr211) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	AAA60045.1
Molecular Weight:	16.3 kDa (predicted)

QC Testing

Biological Activity:	Western blot analysis of extracts from serum-starved NIH-3T3, untreated (-); treated with PDGFA (Cat#TMPY-05056) (5 μ g/mL, 5 min; +), using Phospho-AKT (Ser473) rabbit monoclonal Antibody at 1:2000 dilution (upper) or anti-Akt antibody (lower) (Routinely tested).
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 30% CAN, 0.1% TFA. 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481