

Recombinant Human PDGF-AA Protein (Active)

Catalog No. PKSH032904

Description

Synonyms	Platelet-derived growth factor subunit A;PDGF subunit A;PDGF-1;Platelet-derived growth factor A chain;Platelet-derived growth factor alpha polypeptide; PDGFA;PDGF1
Species	Human
Expression_host	E.coli
Sequence	Ser87-Thr 211
Accession	P04085
Mol_Mass	14.1 kDa
AP_Mol_Mass	16 kDa
Bio_activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 20-160 ng/ml.

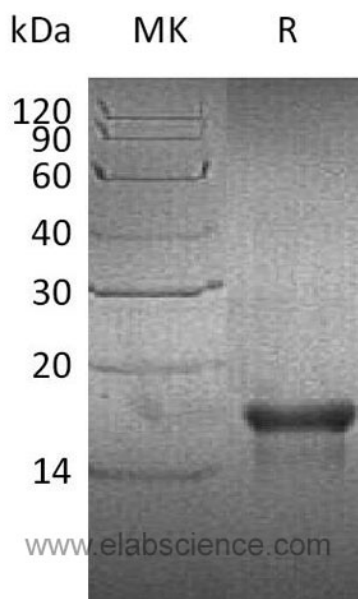
Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 4mM HCl.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Platelet-derived growth factor subunit A (PDGFA), belongs to the PDGF/VEGF growth factor family. PDGFA is a secreted protein, stored in platelet alpha-granules and released by platelets upon wounding. PDGFA is potent mitogens for a variety of cell types including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. It plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. PDGFA is required for normal lung alveolar septum formation during embryogenesis, normal development of the gastrointestinal tract, normal development of Leydig cells and spermatogenesis, normal oligodendrocyte development and normal myelination in the spinal cord and cerebellum. It plays an important role in wound healing; Signaling is modulated by the formation of heterodimers with PDGFB.

SDS-PAGE



Bioactivity

