

Active Recombinant Mouse Pdgfa Protein

Cat. No. Pdgfa-4755M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse platelet derived growth factor, alpha (Pdgfa) without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Required for normal lung alveolar septum formation during embryogenesis, normal development of the gastrointestinal tract, normal development of Leydig cells and spermatogenesis. Required for normal oligodendrocyte development and normal myelination in the spinal cord and cerebellum. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFB.
Bio-activity	Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected ED50 for this effect is 8-10 ng/mL.
Molecular Mass	28.7 kDa
AA Sequence	MSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCNTSSVKCQP SRVHHRSVKVAKVEYVRKKPKLKEVQVRLEEHLACACATSNLNPDHREEETGRRRE SGKNRKRRLKPT

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 0.1 ng/μg of protein (< 1 EU/μg)
Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining
Stability	Unopened vial can be stored between 2 and 8 centigrade for up to 2 weeks, at -20 centigrade for up to 6 months, or at -70 centigrade or below until the expiration date. Aliquots can be stored between 2 and 8 centigrade for up to one week and stored at -20 centigrade or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 μM filtered solution of 20 mM pH 7.2 phosphate buffer, 100 mM NaCl, pH 7.2

GENE INFORMATION

Gene Name	Pdgfa platelet derived growth factor, alpha [Mus musculus (house mouse)]
Official Symbol	Pdgfa
Synonyms	PDGFA; platelet derived growth factor, alpha; platelet-derived growth factor subunit A; PDGF-1; PDGF subunit A; platelet-derived growth factor A chain; platelet-derived growth factor alpha polypeptide
Gene ID	18590
mRNA Refseq	NM_008808
Protein Refseq	NP_032834
UniProt ID	P20033

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