

## Active Recombinant Mouse Pdgfa Protein

Cat. No. Pdgfa-4754M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse platelet derived growth factor, PDGFAB, a disulfide-linked dimer, consisting of one A chain and one B chain without tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Bio-activity</b>	ED50 as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is less than or equal to 1 ng/mL, corresponding to a specific activity of > 1 x 10 <sup>6</sup> units/mg.
<b>Molecular Mass</b>	25.5 kDa
<b>AA Sequence</b>	alpha chain: MSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCN TSSVKCQPSRVHHRSVKVAKVEYVRKKPKLKEVQVRLEEHLLECACATTSLNPDYRE

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EDTGRPRESGKKRKRRLKPT  
 beta chain: MSLGSLTIAEPAMIAECKTRTEVFEISRRLIDRTNANFLVWPPCVEVQRC  
 SGCCNNRNVQCRPTQVQLRPVQVRKIGIVRKKPIFKKATVTLGDHLACKCETVAAAR  
 PVT

<b>Endotoxin</b>	< 0.1 ng/μg of protein (< 1 EU/μg)
<b>Purity</b>	> 95% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μM filtered solution of 20 mM phosphate buffer, 100 mM NaCl, pH 7.2

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Pdgfa platelet derived growth factor, alpha [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Pdgfa</a>
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">18590</a>
<b>mRNA Refseq</b>	<a href="#">NM_008808</a>

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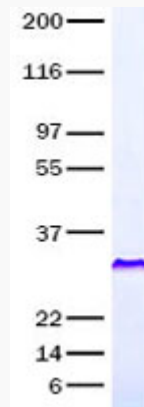
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**Protein Refseq** NP\_032834

**UniProt ID** P20033

**SDS-PAGE**



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