Active Recombinant Mouse Pdgfa Protein

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

SPECIFICATION

Product Overview	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.
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	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 10^6 units/mg.
Molecular Mass	25.5 kDa
AA Sequence	alpha chain: MSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCN TSSVKCQPSRVHHRSVKVAKVEYVRKKPKLKEVQVRLEEHLECACATTSLNPDYRE

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	EDTGRPRESGKKRKRKRLKPT beta chain: MSLGSLTIAEPAMIAECKTRTEVFEISRRLIDRTNANFLVWPPCVEVQRC SGCCNNRNVQCRPTQVQLRPVQVRKIGIVRKKPIFKKATVTLGDHLACKCETVAAAR PVT
Endotoxin	< 0.1 ng/μg of protein (< 1 EU/μg)
Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	LyopH ilized from a 0.2 μM filtered solution of 20 mM pH ospH ate 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

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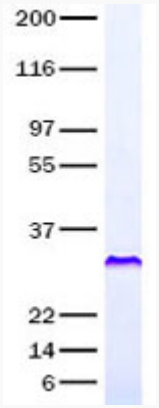
Protein Refseq	NP_032834
UniProt ID	P20033
SDS-PAGE	

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