

Active Recombinant Mouse Pro-Platelet Basic Protein

Cat. No. Ppbp-394M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinantmouse Ppbp protein was expressed in E. coli. Lys40-Tyr113.
Species	Mouse
Source	E.coli
ProteinLength	40-113 a.a.
Description	Ppbp is a proteinthat is released in large amounts from platelets following their activation.It stimulates various processes including mitogenesis, synthesis ofextracellular matrix, glucose metabolism and synthesis of plasminogenactivator.
Form	Lyophilized from a0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Lys40
Molecular Weight	8.2 kDa
Activity	Measured by itsability to chemoattract human CXCR2 transfected BaF3 mouse pro-B cells. TheED50 for this effect is typically 0.2-1 ng/mL.
Endotoxin Level	<1.0 EU per 1 µgof the protein by the LAL method.
Purity	>97%,by SDS-PAGE under reducing conditions and visualized by silver stain.

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Reconstitution	Reconstitute at 25µg/mL in sterile PBS that containing at least 0.1% human or bovine serumalbumin.
Storage	Use amannual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
GENE INFORMATION	
Gene Name	Ppbppro-platelet basic protein [<i>Mus musculus</i>]
Official Symbol	Ppbp
Synonyms	Ppbp; pro-plateletbasic protein; TGB; LDGF; MDGF; TGB1; CTAP3; Cxcl7; NAP-2; Scyb7;b-TG1; LA-PF4; THBGB1; CTAPIII; beta-TG; AI854500; NAP-2-L1; 2400003M24Rik; plateletbasic protein; chemokine (C-X-C) ligand 7; chemokine (C-X-C) ligand 7,isoform CRA_b; chemokine subfamily B Cys-X-Cys; Thymus chemokine 1;Uncharacterized protein; mCG_1702
Gene ID	57349
mRNA Refseq	NM_023785
Protein Refseq	NP_076274
UniProt ID	Q9EQI5
Chromosome Location	5
Pathway	Chemokine receptorsbind chemokines; Chemokine signaling pathway; Class A/1

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(Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; G alpha (i) signalling events; GPCR downstream signaling; GPCR ligand binding; Hemostasis; Peptide ligand-binding receptors; Platelet activation, signaling and aggregation; Platelet degranulation; Response to elevated platelet cytosolic Ca²⁺; Signal Transduction; Signaling by GPCR

Function

Molecular function

PDB rendering based on 1f9p.

