

Active Recombinant Rat Pro-Platelet Basic Protein (chemokine (C-X-C motif) ligand 7)

Cat. No. Pbbp-448R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Pbbp protein was expressed in E. coli. Ile46-Ile107.
Species	Rat
Source	E.coli
Protein Length	46-107 a.a.
Description	Pbbp is a member of the alpha (CXC) subfamily of chemokines. Rat Pbbp cDNA encodes a 111 amino acid residue precursor protein. Rat Pbbp shares 72% amino acid sequence identity with mouse Pbbp. The recombinant rat Pbbp produced by R&D Systems has been shown to chemoattract human CXCR2 transfected mouse BaF/3 cells, but not human CXCR1 transfected mouse BaF/3 cells.
Form	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
N-terminal Sequence	Ile46
Molecular Weight	6.8 kDa
Activity	Measured by its ability to chemoattract human CXCR2 transfected BaF3 mouse proB cells. The ED50 for this effect is typically 1.5 ng/mL.

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Endotoxin Level	<1.0EU per 1 µg of the protein by the LAL method.
Purity	>97%,by SDSPAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 25µg/mL in sterile PBS containing at least 0.1%human or bovine serum albumin.
Storage	Use amannual defrost freezer and avoid repeated freezethaw cycles. 12 months from date of receipt, 20 to 70°C as supplied. 1 month,2 to 8°C under sterile conditions after reconstitution. 3 months, 20 to 70°Cunder sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Ppbp pro-platelet basicprotein (chemokine (C-X-C motif) ligand 7) [Rattus norvegicus]
Official Symbol	Ppbp
Synonyms	Ppbp; pro-plateletbasic protein (chemokine (C-X-C motif) ligand 7); Cxcl7; Nap-2; plateletbasic protein; neutrophil activating peptide-2; chemokine (C-X-C motif)ligand 7
Gene ID	246358
mRNA Refseq	NM_153721
Protein Refseq	NP_714943
UniProt ID	Q99ME0
Chromosome Location	14

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Pathway

Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (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; Platelet degranulation; Signal Transduction; Signaling by GPCR

Function

chemokine activity; molecular_function

PDB rendering based on 1f9p.

