

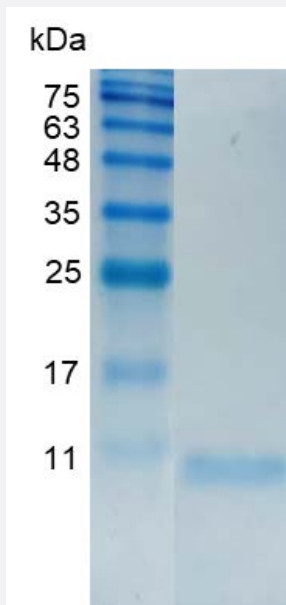
Bioactive

PPBP (Human) Recombinant Protein

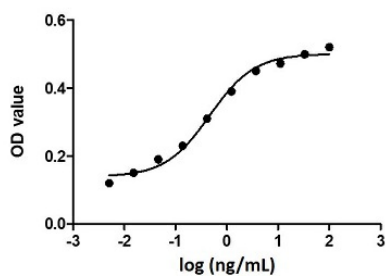
Catalog # P7844

Size 20 ug

Applications



SDS-PAGE analysis of PPBP (Human) Recombinant Protein.



Result of activity analysis

Result of activity analysis

Specification

Product Description

Human PPBP recombinant protein with polyhistidine tag at the N-terminus expressed in *Escherichia coli*.

Sequence

AELRCMCIKTTSGIHPKNIQSLEVIGKGTHCNQVEVIATLKDGRKICLDPDAPRIKKVQKKLAGDES
AD with polyhistidine tag at the N-terminus.

Host

Escherichia coli

Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Ni-NTA chromatography
Purity	> 98% as determined by SDS-PAGE.
Endotoxin Level	< 0.1 EU/ ug of protein by the LAL method.
Activity	ED ₅₀ < 0.5 ng/mL, measured by the ability to chemoattract BaF3 cells transfected with human CXCR 2.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of PPBP (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from a solution containing 1X PBS, pH 7.4. Reconstitute the lyophilized powder in ddH ₂ O to 100 ug/mL.
Storage Instruction	Lyophilized protein should be stored at -20°C. Protein aliquots should be stored at -20°C to -80°C. Th is product is stable for one year. Avoid repeated freeze/thaw cycles.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — PPBP

Entrez GeneID	5473
Gene Name	PPBP
Gene Alias	B-TG1, Beta-TG, CTAP-III, CTAP3, CTAPIII, CXCL7, LA-PF4, LDGF, MDGF, NAP-2, PBP, SCY B7, TC1, TC2, TGB, TGB1, THBGB, THBGB1
Gene Description	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)

Omim ID [121010](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a platelet-derived growth factor that belongs to the CXC chemokine family. This growth factor is a potent chemoattractant and activator of neutrophils. It has been shown to stimulate various cellular processes including DNA synthesis, mitosis, glycolysis, intracellular cAMP accumulation, prostaglandin E2 secretion, and synthesis of hyaluronic acid and sulfated glycosaminoglycan. It also stimulates the formation and secretion of plasminogen activator by synovial cells. [provided by RefSeq]

Other Designations

CXC chemokine ligand 7|beta-thromboglobulin|connective tissue-activating peptide III|leukocyte-derived growth factor|low-affinity platelet factor IV|macrophage-derived growth factor|neutrophil-activating peptide 2|neutrophil-activating peptide-2|platelet

Pathway

- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)

Disease

- [Asthma](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Respiratory Syncytial Virus Infections](#)