Bioactive

PPBP (Human) Recombinant Protein

Catalog # P7395 Size 10 ug

Specification

Product Description	Human PPBP (P02775, 59 a.a. - 128 a.a.) partial recombinant protein expressed in CHO cells.
Sequence	AELRCMCIKTTSGIHPKNIQSLEVIGKGTHCNQVEVIATLKDGRKICLDPDAPRIKKIVQKKLAGDES AD
Host	Mammals
Theoretical MW (kDa)	~ 9
Form	Lyophilized
Preparation Method	_x005F_x000D__x000D_ Mammalian cell (CHO) expression system_x005F_x000D__x000D_
Purity	> 98% as analyzed by SDS-PAGE.
Endotoxin Level	< 0.2 EU/ ug of protein (gel clotting method)
Activity	Human PPBP EC_{50} < 0.1 ug/mL, measured on Ca^{2+} mobilization assay in CHO-K1/ Galpha15/hCX CR1 cells (human Galpha15 and human CXCR1 stably expressed in CHO-K1 cells).
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH_2O up to 100 ug/mL.
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — PPBP

Entrez GeneID	5473
Protein Accession#	P02775
Gene Name	PPBP
Gene Alias	B-TG1, Beta-TG, CTAP-III, CTAP3, CTAPIII, CXCL7, LA-PF4, LDGF, MDGF, NAP-2, PBP, SCYB7, 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 sythesis 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

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- Edema
- Genetic Predisposition to Disease
- Infant
- Respiratory Syncytial Virus Infections

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