

Recombinant Human PPBP protein

Cat. No. PPBP-04H PPBP **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PPBP protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	70
Description	Neutrophil activating protein-2 also named CXCL7 is an isoform of Beta-Thromboglobulin or Pro-Platelet basic protein. It belongs to the CXC chemokine family and is released in large amounts from platelets following their activation. CXCL7 stimulates 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 human synovial cells. Recombinant human CXCL7 contains 70 amino acids which is a single non-glycosylated polypeptide chain. In addition, The human CXCL7 shares 53 % and 58 % a.a. sequence identity with mouse and rat CXCL7.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration range of 1.0-10.0 ng/ml.

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Molecular Mass	Approximately 7.6 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
AA Sequence	AELRCMCIKTTSGIHPKNIQSLEVIGKGTHCNQVEVIATLKDGRKICLDPDAPRIKKIVQ KKLAGDESAD
Endotoxin	Less than 1 EU/μg of rHuNAP-2/CXCL7 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	PPBP
Official Symbol	PPBP
Synonyms	PPBP; pro-platelet basic protein (chemokine (C-X-C motif) ligand 7); THBGB1; platelet basic protein; b TG1; Beta TG; beta thromboglobulin; connective tissue activating peptide III; CTAP3; CTAPIII; CXCL7; LA PF4; LDGF; MDGF; NAP 2; NAP 2 L1; neutrophil activating peptide 2; PBP; SCYB7; TGB; TGB1; thrombocidin 1;

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thrombocidin 2; beta-thromboglobulin; CXC chemokine ligand 7; C-X-C motif chemokine 7; thromboglobulin, beta-1; small inducible cytokine B7; small-inducible cytokine B7; leukocyte-derived growth factor; low-affinity platelet factor IV; neutrophil-activating peptide 2; neutrophil-activating peptide-2; macrophage-derived growth factor; connective tissue-activating peptide III; small inducible cytokine subfamily B, member 7; TC1; TC2; B-TG1; NAP-2; THBGB; LA-PF4; SCAR10; Beta-TG; CTAP-III;

Gene ID	5473
mRNA Refseq	NM_002704
Protein Refseq	NP_002695
MIM	121010
UniProt ID	P02775