

Active Recombinant Human PPBP Protein (70 aa)

Cat. No. PPBP-068P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PPBP Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	70
Description	Neutrophil Activating Peptide 2 (NAP-2) is proteolytically processed carboxyl-terminal fragments of platelet basic protein (PBP) which is found in the alpha-granules of human platelets. NAP-2 is a member of the CXC chemokines. Similar to other ELR domain containing CXC chemokines such as IL-8 and the GRO proteins, NAP-2 has been shown to bind CXCR-2 and to chemoattract and activate neutrophils. Although CTAP-III, β-TG and PBP represent amino-terminal extended variants of NAP-2 and possess the same CXC chemokine domains, these proteins do not exhibit NAP-2 activity. Recently, it has been shown that the additional amino-terminal residues of CTAP-III masks the critical ELR receptor binding domain that is exposed on NAP-2 and may account for lack of NAP-2 activity.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard. Determined by its ability to chemoattract human neutrophils using a concentration range of 1.0-10.0 ng/mL, corresponding to a Specific Activity of 1×10^5 IU/mg

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Molecular Mass	7.6 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
AA Sequence	AELRCMCIKTTSGIHPKNIQSLEVIGKGTHCNQVEVIATLKDGRKICLDPDAPRIKKIVQ KKLAGDESAD
Endotoxin	Less than 1 EU/mg of rHuNAP-2/CXCL7 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4, 50mM NaCl.
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 < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	PPBP pro-platelet basic protein [Homo sapiens (human)]
Official Symbol	PPBP
Synonyms	PPBP; pro-platelet basic protein; PBP; TC1; TC2; TGB; LDGF; MDGF; TGB1; B-TG1;

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CTAP3; CXCL7; NAP-2; SCYB7; THBGB; LA-PF4; THBGB1; Beta-TG; CTAPIII; CTAP-III; platelet basic protein; C-X-C motif chemokine 7; CXC chemokine ligand 7; beta-thromboglobulin; chemokine (C-X-C motif) ligand 7; connective tissue-activating peptide III; leukocyte-derived growth factor; low-affinity platelet factor IV; macrophage-derived growth factor; neutrophil-activating peptide 2; small inducible cytokine B7; small inducible cytokine subfamily B, member 7; thrombocidin 1; thrombocidin 2; thromboglobulin, beta-1;

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