

Active Recombinant Human PPBP Protein (70 aa)

Cat. No. PPBP-215P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NAP-2/CXCL7 produced in CHO cells is a single polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhNAP-2/CXCL7 has a molecular mass of 9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Human
Source	CHO
ProteinLength	70
Description	Chemokine (C-X-C motif) ligand(CXCL7) is a small cytokine belonging to the CXC chemokine family. It is an isoform of Beta-Thromboglobulin or Pro-Platelet basic protein (PPBP). CXCL7 can signal through the CXCR1 and CXCR2 receptors. It is a protein that is released in large amounts from platelets following their activation. It stimulates various processes including mitogenesis, synthesis of extracellular matrix, glucose metabolism and synthesis of plasminogen activator.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	The EC ₅₀ value of human NAP-2/CXCL7 on Ca ²⁺ mobilization assay in CHO-K1/Ga15/hCXCR1 cells (human Ga15 and human CXCR1 stably expressed in CHO-K1 cells) is less than 0.1 µg/mL.
Molecular Mass	9 kDa, observed by reducing SDS-PAGE.

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AA Sequence	AELRCMCIKTTSGIHPKNIQSLEVIGKGTHCNQVEVIATLKDGRKICLDPDAPRIKKIVQ KKLAGDESAD
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 98% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant humanNAP-2/CXCL7 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human NAP-2/CXCL7 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

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; 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

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mRNA Refseq	NM_002704
Protein Refseq	NP_002695
MIM	121010
UniProt ID	P02775

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