

Recombinant Human NAP-2 (PPBP) (CXCL7)

Cat No:HR2R1777

For research use only

Overview

Quantity	10 ?g
Gene Symbol	PPBP
Gene ID	5473
Accession	P02775
Alternative Name	CXCL7, PBP (parent molecule), CTAP-III (precursor), Platelet basic protein, C-X-C motif chemokine 7, Leukocyte-derived growth factor, LDGF, Macrophage-derived growth factor, MDGF, Small-inducible cytokine B7, SCYB7, TGB1, THBGB1, NAP2 Recombinant Human Neutrophil Activating Peptide-2 (PPBP)
Species	Human
Source	E. coli
Description	The chemokine neutrophil- activating peptide 2 (NAP-2) is a 70-amino acid residue polypeptide that is formed from platelet-derived precursors by proteolytic processing. Mature NAP-2 stimulates various effector functions of polymorphonuclear neutrophil granulocytes (PMN) including directed chemotactic migration, exocytosis of lysosomal enzymes and secondary granule contents, and up-regulation of adhesion receptors. NAP-2 has been assigned to a subfamily now termed alpha-chemokines. The alpha-chemokines contain four cysteine residues at highly conserved positions which enclose the core region of the molecules. The first two cysteines are separated by a single amino acid, forming a motif (CXC) that distinguishes the alpha-chemokine from the beta-chemokine subfamily, where these cysteines are in directly adjacent position.
Functions	Determined by its ability to chemoattract human monocytes using a concentration range of 2.0-40.0 ng/mL.
Formulation	Lyophilized from a 0.2 ?m filtered 20 mM PB,100 mM NaCl solution pH 7.5.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	8
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.