

Growth Factor Data Sheet

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Rat PPBP is an ELR type of CXC chemokine. This recombinant protein is a mature, proteolytically processed form of PPBP that is also known as NAP2. It is expressed in monocytes and macrophages, especially from the lungs, after treatment with bacterial endotoxins and released from the alpha-granules of platelets after their activation. NAP2 is chemotactic for fibroblasts and neutrophils and binds to the receptor CXCR2. It is involved in a variety of cellular processes including mitogenesis, DNA synthesis, extracellular matrix synthesis, glycolysis, and plasminogen activator synthesis.

Catalog Number	2510-07
Product Name	PPBP (CXCL7), Rat Recombinant Rat Pro-Platelet Basic Protein (PPBP) Chemokine (C-X-C motif) Ligand 7 (CXCL7) Neutrophil-Activating Polypeptide 2 (NAP2, NAP-2) Small Inducible Cytokine Subfamily B Member 7 (SCYB7) Beta-Thomboglobulin (THBGB1)
Source	<i>Escherichia coli</i>
MW	~6.8 kDa (62 amino acids)
Sequence	IELRCRCTNT LSGIPLNSIS RVNVFRPGAH CDNVEVIATL KNGKEVCLDP TAPMIKKIVK KI
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human CXCR2 transfected murine BaF3 cells is in a concentration range of 0.1-1.0 ng/ml.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.