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## Product Data Sheet

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Product Name: NAP 2 Human  
 Cat. No.: GP21194  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Platelet basic protein; PBP; Small inducible cytokine B7; CXCL7; Leukocyte-derived growth factor; LDGF; Macrophage-derived growth factor; MDGF; pro-platelet basic protein (chemokine (C-X-C motif) ligand 7); TC1; TC2; TGB; TGB1; B-TG1; CTAP3; NAP-2; SCYB7; THBGB; LA-PF4; THBGB1; Beta-TG; CTAPIII; CTAP-III.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Glu-Leu-Arg-Cys.		
Solubility	It is recommended to reconstitute the lyophilized Neutrophil Activating Protein-2 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The CXCL7 protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.		

### Introduction

Chemokine (C-X-C motif) ligand (CXCL7) is a small cytokine belonging to the CXC chemokine family. 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.

### Biological Activity

The specific activity as determined by the ability of NAP2 to chemoattract human neutrophils using a concentration of 1-10ng/ml corresponding to a Specific Activity of 100,000-1,000,000IU/mg.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Lyophilized NAP-2 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution CXCL7 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Neutrophil Activating Protein-2 Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 70 amino acids and having a molecular mass of 7609 Dalton. The NAP-2 is purified by proprietary chromatographic techniques.

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