



## Neutrophil Activating Protein-2 (CXCL7), human recombinant (rHuNAP-2)

**Catalog No:** 94844  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**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

### Background

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.

### Description

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. NAP-2 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The CXCL7 protein was lyophilized from a concentrated (1 mg/ml) sterile solution containing no additives.

### Solubility

It is recommended to reconstitute the lyophilized NAP-2 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

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

### Purity

Greater than 98.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### 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.

### Activity

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

### Usage

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