

**NAP-2/CXCL7**  
Catalog # PVGS1497

**Specification**

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**NAP-2/CXCL7 - Product Information**

Primary Accession [O99ME0](#)  
Species  
Rat

Sequence  
Ile46-Ile107

Purity  
> 95% as analyzed by SDS-PAGE

Endotoxin Level  
< 0.2 EU/ µg of protein by gel clotting method

**Biological Activity**  
The EC<sub>50</sub> value of Rat NAP-2/CXCL7 on Ca<sup>2+</sup> mobilization assay in CHO-K1/Gα15/rCXCR2 cells (human Gα15 and Rat CXCR2 stably expressed in CHO-K1 cells) is less than 200.0 ng/ml.

**Expression System**  
E. coli

Formulation **Lyophilized after extensive dialysis against PBS.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH<sub>2</sub>O or PBS up to 100 µg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

**NAP-2/CXCL7 - Additional Information**

**Target Background**  
Neutrophil Activating Peptide 2 (NAP-2) is proteolytically processed carboxyl-terminal fragments of platelet basic protein (PBP) which is found in the alpha-granules of human platelets. NAP-2 is a member of the CXC chemokines. Similar to other ELR domain containing CXC chemokines such as IL-8 and the GRO proteins, NAP-2 has been shown to bind CXCR-2 and to chemoattract and activate neutrophils. Although CTAP-III, β-TG and PBP represent amino-terminal extended variants of NAP-2 and possess the same CXC chemokine domains, these proteins do not exhibit NAP-2 activity. Recently, it has been shown that the additional amino-terminal residues of CTAP-III masks the critical ELR receptor binding domain that is exposed on NAP-2 and may account for lack of

NAP-2 activity.

### **NAP-2/CXCL7 - Protein Information**

### **NAP-2/CXCL7 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **NAP-2/CXCL7 - Images**