

Recombinant Human Neutrophil Activating Protein-2 (CXCL7) (NAP-2)

Certificate of Analysis and Data Sheet

➤ Source: E.Coli	➤ Catalog No. CHM-274
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➤ **Description :**

Recombinant Human NAP-2 produced in E.Coli is a non-glycosylated, Polypeptide chain containing 70 amino acids and having a molecular mass of 7609 Dalton.

Recombinant NAP-2 is purified by proprietary chromatographic techniques.

➤ **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

➤ **Formulation:**

Recombinant Neutrophil-activating peptide 2, lyophilized from a concentrated (1 mg/ml) solution in water containing no additives.

➤ **Solubility:**

It is recommended to reconstitute the lyophilized NAP-2 in sterile 18MΩ-cm H₂O not less than 100µg/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 NAP-2 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 avoid freeze-thaw cycles.

➤ **Purity:**

Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Anion-exchange FPLC.

(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

➤ **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

➤ **Dimers and aggregates:**

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

➤ **Biological Activity:**

This NAP-2 is fully biologically active when compared to standard. The specific activity as determined by the ability of NAP-2 to chemoattract human neutrophils using a concentration of 1-10 ng/ml.

➤ **Endotoxin:**

Less than 0.1 ng/μg (IEU/μg) of NAP-2.

➤ **Protein content:**

Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm .

2. Analysis by RP-HPLC, using a standard solution of NAP-2 as a Reference Standard.

➤ **Usage:**

This material is offered for research, laboratory or further evaluation purposes.