

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

Synonyms: Platelet basic protein, PBP, Small inducible cytokine B7, Leukocyte-derived growth factor, LDGF, Macrophage-derived growth factor, MDGF, CTAP3, SCYB7, THBGB, LA-PF4, Beta-TG

Introduction: NAP-2 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: Recombinant human NAP-2 produced in *E.Coli* is a non-glycosylated polypeptide chain containing 70 amino acids and having a molecular mass of 7.6 kDa. The rh NAP-2 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.22 µm filtered solution in 25 mM sodium phosphate, 50 mM NaCl pH 7.3. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh NAP-2 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh NAP-2 although stable at room temperature for 3 weeks, should be stored desiccated 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 95.0% as determined by SDS-PAGE.

Amino acid sequence: AELRC MCIKTTSGIHPKNIQSLEVI GKGTHCNQVEVIATLKDGRK
ICLDPDAPRIKKIVQKLAG DESAD

Endotoxicity: The endotoxin level is less than 1 EU / µg determined by LAL method.

Biological Activity: The specific activity as determined by the ability of NAP-2 to chemoattract human neutrophils using a concentration of 1-10 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11343392
<i>medium</i>	10 µg	Cat.N°	11343393
<i>large</i>	50 µg	Cat.N°	11343395
<i>x-large</i>	250 µg	Cat.N°	11343397
<i>xx-large</i>	1000 µg	Cat.N°	11343398

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