

## NAP 2 Rat

**Description:** NAP-2 Rat Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 62 amino acids and having a molecular mass of 6.8kDa. The NAP 2 is purified by proprietary chromatographic techniques.

**Catalog #:** CHPS-276

For research use only.

**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,

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** IELRCRCTNT LSGIPLNSIS RVNVFRPGAH CDNVEVIATL  
KNGKEVCLDP TAPMIKKIVK KI.

**Purity:** Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

NAP-2 protein was lyophilized from a 0.2

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized NAP-2 in sterile 18M-cm H<sub>2</sub>O not less than 100

**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:**

Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with human CXCR2. The ED50 for this effect is less than 10ng/ml, corresponding to a specific activity of 100,000units/mg.

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