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- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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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 H₂O 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

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.