
Product Data Sheet

Product Name: NAP 2 Rat
 Cat. No.: GP21196
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	IELRCRCTNT LSGIPLNSIS RVNVFRPGAH CDNVEVIATL KNGKEVCLDP TAPMIKKIVK KI.		
Solubility	It is recommended to reconstitute the lyophilized NAP-2 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	NAP-2 protein was lyophilized from a 0.2µm filtered concentrated solution in 16 ⁻ PBS, pH 7.4.		

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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