

# Recombinant Human CXCL7/NAP-2 Protein

Catalog Number:PKSH032305



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

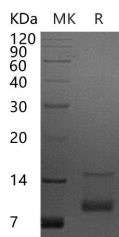
## Description

<b>Synonyms</b>	Platelet Basic Protein;PBP;C-X-C Motif Chemokine 7;Leukocyte-Derived Growth Factor;LDGF;Macrophage-Derived Growth Factor;MDGFSmall-Inducible Cytokine B7;PPBP;CTAP3;CXCL7;SCYB7;TGB1;THBGB1
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Ala59-Asp128
<b>Accession</b>	P02775
<b>Calculated Molecular Weight</b>	8.4 kDa
<b>Observed molecular weight</b>	11 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2.The ED <sub>50</sub> for this effect is < 0.5 ng/mL.

## Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 98 % as determined by reducing SDS-PAGE.

## Background

Human Chemokine (C-X-C motif) Ligand 7 (CXCL7); also known as neutrophil activating peptide 2 (NAP-2); is a member of the CXC chemokines containing an ELR domain (Glu-Leu-Arg tripeptide motif). Similar to other ELR domain containing CXC chemokines; such as IL-8 and the GRO proteins; CXCL7 binds CXCR2; chemoattracts and activates neutrophils. CXCL7; Connective Tissue Activating Protein III (CTAPIII) and  $\beta$ thromboglobulin ( $\beta$ TG); are

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proteolytically processed carboxylterminal fragments of platelet basic protein (PBP) which is found in the alphagranules of human platelets. Although CTAPIII;  $\beta$ TG; and PBP represent amino-terminal extended variants of NAP2 and possess the same CXC chemokine domains; these proteins do not exhibit CXCL7/NAP2 activity. CXCL7 induces cell migration through the G-protein-linked receptor CXCR-2.

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