# Recombinant Human CXCL7/NAP-2 Protein

**Catalog Number: PKSH032305**

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

## Description

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|---|---|
| **Species** | Human |
| **Source** | E.coli-derived Human CXCL7;NAP-2 protein Ala59-Asp128, with an N-terminal His |
| **Calculated MW** | 8.4 kDa |
| **Observed MW** | 11 kDa |
| **Accession** | P02775 |
| **Bio-activity** | Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2.The $ED_{50}$ for this effect is <0.5 ng/mL. |

## Properties

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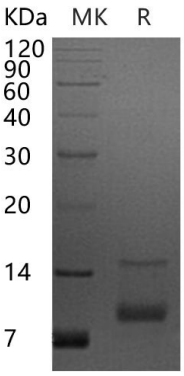
|---|---|
| **Purity** | > 98 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 0.1 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | 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 βthrombogulin (βTG); are proteolytically processed carboxylterminal fragments of platelet basic protein (PBP) which is found in the alphagranules of human platelets. Although CTAPIII; βTG; 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.