

Recombinant Human CXCL7/NAP-2 Protein(Sumo Tag)

Catalog Number: PDEH100572

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

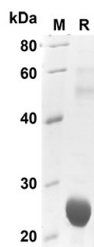
Description

| | |
|----------------------|--|
| Species | Human |
| Source | E.coli-derived Rat CXCL7/NAP-2 protein Ala59-Asp128, with an N-terminal Sumo |
| Calculated MW | 20.59 kDa |
| Observed MW | 25 kDa |
| Accession | P02775 |
| Bio-activity | Not validated for activity |

Properties

| | |
|-----------------------|--|
| Purity | > 90% as determined by reducing SDS-PAGE. |
| Endotoxin | < 10 EU/mg 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 °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. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol. |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis. |

Data



SDS-PAGE analysis of Human CXCL7/NAP-2 proteins ,
2µg/lane of Recombinant Human CXCL7/NAP-2 proteins
was resolved with SDS-PAGE under reducing conditions ,
showing bands at 25 KD

Background

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Pro-platelet basic protein (PPBP) is also known as Chemokine (C-X-C motif) ligand 7 (CXCL7) and nucleosome assembly protein (Nap-2). Nap-2 / PPBP / CXCL7 is released in large amounts from platelets following their activation and is a platelet-derived growth factor that belongs to the CXC chemokine family. This growth factor is a potent chemoattractant and activator of neutrophils. Nap-2 / PPBP / CXCL7 has been shown to stimulate various cellular processes including DNA synthesis , mitosis , glycolysis , intracellular cAMP accumulation , prostaglandin E2 secretion , and synthesis of hyaluronic acid and sulfated glycosaminoglycan. It also stimulates the formation and secretion of plasminogen activator by synovial cells. Nap-2 is a ligand for CXCR1 and CXCR2 , and Nap-2 , Nap-2 (73) , Nap-2 (74) , Nap-2 (1-66) , and most potent Nap-2 (1-63) are chemoattractants and activators for neutrophils.