

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

Catalog Number:PKSH032306



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

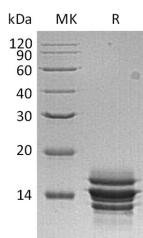
Description

Synonyms	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
Species	Human
Expression Host	HEK293 Cells
Sequence	Ser35-Asp128
Accession	P02775
Calculated Molecular Weight	11.3 kDa
Observed molecular weight	12-16 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g 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 μ m filtered solution of 20mM HAc-Nac, 150mM NaCl, pH 4.0. 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 for detailed information.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % 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 β thrombogulin (β TG); are proteolytically processed carboxylterminal fragments of platelet basic protein (PBP) which is found in the alpha granules

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of human platelets. Although CTAPIII; β 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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