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Datasheet for ABIN1096473
CXCL7 Protein (AA 59-128)

Overview

Quantity:	50 µg
Target:	CXCL7 (PPBP)
Protein Characteristics:	AA 59-128
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)

Product Details

Purpose:	Recombinant Human C-X-C Motif Chemokine 7/CXCL7/NAP-2
Sequence:	AELRCMCIKT TSGIHPKNIQ SLEVIGKGTH CNQVEVIATL KDGRKICLDP DAPRIKKIVQ KKLAGDESAD
Characteristics:	Recombinant Human C-X-C Motif Chemokine Ligand 7/CXCL7 produced in E. coli is a single non-glycosylated polypeptide chain containing 70 amino acids with a molecular mass of 7.6 kDa.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CXCL7 (PPBP)
Alternative Name:	Nap-2 (PPBP Products)
Background:	<p>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 betathromboglobulin (betaTG), are proteolytically processed carboxylterminal fragments of platelet basic protein (PBP) which is found in the alphagranules of human platelets. Although CTAPIII, betaTG, 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.</p> <p>Alternative Names: Platelet Basic Protein, PBP, C-X-C Motif Chemokine 7, Leukocyte-Derived Growth Factor, LDGF, Macrophage-Derived Growth Factor, MDGF Small-Inducible Cytokine B7, PPBP, CTAP3, CXCL7, SCYB7, TGB1, THBGB1</p>
Molecular Weight:	7.6 kDa
UniProt:	P02775

Application Details

Comment:	Biological activity: ED50 is 0.1-0.5 ng/mL as determined by the ability of Recombinant CXCL7 to chemoattract human CXCR2 transfected BaF3 mouse proB cells.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months