Recombinant Mouse CXCL7 (40-113) protein(His Tag)

Catalog No. PKSM041515

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

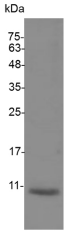
Description

Synonyms	MIP-1b: Macrophage Inflammatory Protein-1β;ACT-2
Species	Mouse
Expression Host	E.coli
Sequence	Lys 40-Tyr 113
Accession	NP_076274
Calculated Molecular Weight	8.9 kDa
Observed molecular weight	11 kDa
Tag	N-His
Bioactivity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED_{50} for this effect is < 1 μg/mL.

Properties

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. 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.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Human Chemokine (C-X-C motif) Ligand 7 (CXCL7); also known as neutrophil activating peptide 2 (NAP-2); is a

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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.

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