Recombinant Rat CXCL7 Protein, His-tagged

Cat. No. Cxcl7-524R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cxcl7 (NP_714943.1) (Lys38-Tyr111) was expressed with a polyhistidine tag at the C-terminus.
Species	Rat
Source	Yeast
ProteinLength	Lys38-Tyr111
Description	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 pr centigradeesses 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.
Predicted N Terminal	Lys 38
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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Molecular Mass	The recombinant rat Cxcl7 consists of 84 amino acids and predicts a molecular mass of 9.6 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 95% as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at-70 centigrade. Store it under sterile conditions at-20 centigrade to-80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Official Symbol	Cxcl7
Synonyms	Cxcl7;pro-platelet basic protein;Ppbp;Nap-2;platelet basic protein;chemokine (C-X-C motif) ligand 7;neutrophil activating peptide-2

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