

Rat NAP-2 / PPBP / CXCL7 Protein (Fc Tag)

Catalog Number: 80066-R01H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

Cxcl7, Nap-2

Protein Construction:

A DNA sequence encoding the rat PPBP (NP_714943.1) (Ile 46-Ile 107) was fused with the Fc region of human IgG1 at the N-terminus.

Source: Rat

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu

Molecular Mass:

The recombinant rat PPBP /Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 322 amino acids and has a calculated molecular mass of 35.3 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rat PPBP /Fc monomer is approximately 40 kDa.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

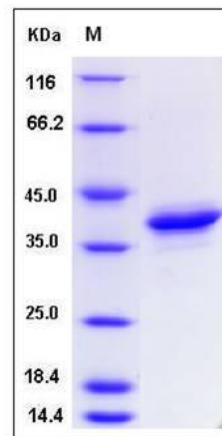
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Pro-platelet basic protein (PPBP) is also known as Chemokine (C-X-C motif) ligand 7 (CXCL7) and nucleosome assembly protein (Nap-2). This protein is a platelet-derived growth factor that belongs to the CXC chemokine family. CXCL7 / NAP-2 / PPBP / CXCL7 is released in large amounts from platelets following their activation. This growth factor is a potent chemoattractant and activator of neutrophils. CXCL7 / 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.

References

1. Walz A. et al., 1989, J Exp Med. 170 (5): 1745-50.
2. Walz A. et al., 1990, J Exp Med. 171 (2): 449-54.
3. Loetscher P. et al., 1994, FEBS Lett. 341 (2-3): 187-92.

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