

For Research Use Only

# Recombinant Rat CXCL7/PPBP protein (rFc Tag)



Catalog Number: Eg3405

## Basic Information

**Species:**  
Rat

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Rat CXCL7 protein Ile46-Ile107 (Accession# Q99ME0) with a rabbit IgG Fc tag at the N-terminus.

**GeneID:**  
246358

**Accession:**  
Q99ME0

**Predicted Molecular Mass:**  
33.6 kDa

**SDS-PAGE:**  
35-40 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Platelet basic protein (PBP), also named as NAP2, CXCL7, or  $\beta$ -Thromboglobulin, derived from its precursor pro-PBP (PPBP), is a platelet-derived growth factor that belongs to the CXC chemokine family, functioning as a potent chemoattractant and activator of neutrophils through binding to its receptor CXCR2. By post-translational cleavage, this small protein of 14 kD gives rise to connective tissue-activating peptide-III (CTAP-III), neutrophil-activating peptide-2 (NAP-2),  $\beta$ -thromboglobulin ( $\beta$ -TG), and two variants of thrombospondin (TC-1 and TC-2). High PPBP expression was significantly correlated with poor differentiation, lymph node metastasis, vascular invasion and advanced clinical stage.

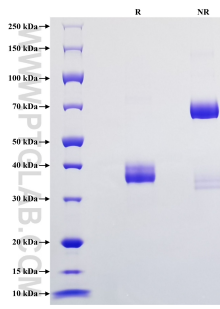
## References

1. El-Gedaily A, et al. (2004). J Leukoc Biol. Mar;75(3):495-503.
2. Kruidenier L, et al. (2006). Gastroenterology. Jan;130(1):127-36.
3. Guo Q, et al. (2017). Oncol Rep. Feb;37(2):1114-1122.

## Synonyms

Chemokine (C-X-C motif) ligand 7, Cxcl7, Ppbp

## Selected Validation Data



Purity of Recombinant Rat CXCL7 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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