

For Research Use Only

Recombinant Rat CXCL2 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg4211

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Rat CXCL2 protein Ser32-Asn100 (Accession# P30348) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
114105

Accession:
P30348

Predicted Molecular Mass:
33.9 kDa

SDS-PAGE:
34-40 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm 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

Chemokine (C-X-C motif) ligand 2 (CXCL2) is a small cytokine belonging to the CXC chemokine family that is also called macrophage inflammatory protein 2-alpha (MIP2-alpha), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2). This chemokine is secreted by monocytes and macrophages and is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells. CXCL2 mobilizes cells by interacting with a cell surface chemokine receptor called CXCR2. During inflammation, the level of CXCL2 increases and is involved in the release of opioid peptides from leukocytes. Down-regulation of CXCL2 could reduce the recruitment of polymorphonuclear cells, which are key players in the clearance of L. monocytogenes during infection.

References

1. Wolpe SD, et al. (1989) PNAS. 86(2):612-6.
2. Iida N, et al. (1990) Mol Cell Biol. 10(10):5596-9.
3. Pelus LM, et al. (2006) Exp Hematol. 34(8):1010-20.
4. Dagmar Hackel, et al (2010) NeuroImmune Biology. 9,237-250.
5. Febbraio MA, et al. (2005). Exerc Sport Sci Rev. 33:114-9.
6. L. Dortet, et al. (2019) Encyclopedia of Microbiology. 803-818.

Synonyms

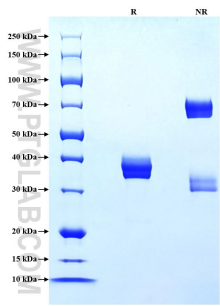
CINC-3, C-X-C motif chemokine 2, Cytokine-induced neutrophil chemoattractant 3, Macrophage inflammatory protein 2, MIP2

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

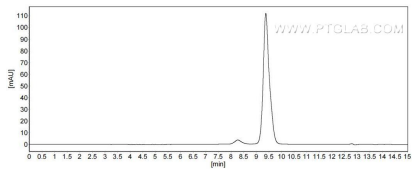
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Selected Validation Data



Purity of Recombinant Rat CXCL2 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.



The purity of Rat CXCL2 was greater than 90% as determined by SEC-HPLC.