

For Research Use Only

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



Catalog Number: Eg2239

Basic Information

Species:
Mouse

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 Mouse CXCL2 protein Ala28-Asn100 (Accession# P10889) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
20310

Accession:
P10889

Predicted Molecular Mass:
35.0 kDa

SDS-PAGE:
34-38 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

CXCL2, also known as macrophage inflammatory protein 2-α (Mip2-α), is a member of CXC chemokine family that binds to CXC chemokine receptor 2 (CXCR2). CXCL2 is mainly produced by macrophages, endothelial cells, epithelial cells and tumor cells. CXCL2 plays important roles in various biological progresses such as angiogenesis, inflammation, immune response and cancer biological behaviors. Under inflammatory conditions in CNS, microglia and astrocytes may secrete CXCL2 as well as other chemokines, which induces chemotaxis and infiltration of circulatory neutrophils. Indeed, previous studies suggest that CXCL2 is involved in Alzheimer disease, multiple sclerosis and brain ischemia.

References

1. Vansaun MN. et al. (2013). PLoS One. 8(9):e73054.
2. Jablonska J. et al. (2014). Int J Cancer. 134:1346-58.
3. Oue E. et al. (2012). Biochem Biophys Res Commun. 424:456-461.
4. Haraguchi K. et al. (2012). J. Neurosci. 32:3931-3941.
5. L. Bozoyan. et al. (2015). J. Neuroinflammation. 12:173.
6. Hosking MP. et al. (2010). PLoS One. 5(6):e11340.

Synonyms

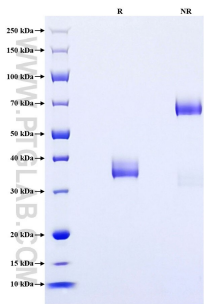
C-X-C motif chemokine 2, Macrophage inflammatory protein 2, MIP2, Mip-2, Scyb2

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

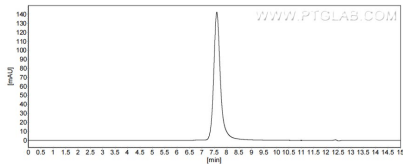
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Selected Validation Data



Purity of Recombinant Mouse 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 Mouse CXCL2 was greater than 90% as determined by SEC-HPLC.