

For Research Use Only

Recombinant Mouse CCL7/MCP-3 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg4626

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 CCL7 protein Gln24-Pro97 (Accession# Q03366) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
20306

Accession:
Q03366

Predicted Molecular Mass:
35.7 kDa

SDS-PAGE:
38-43 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

The chemokine CCL7 (MCP3) is a chemotactic factor and potent attractant of monocytes firstly characterized from the culture supernatants of MG-63 osteosarcoma cells. CCL7 is known to promote the recruitment of many innate immune cell types including monocytes and neutrophils to sites of bacterial and viral infection and eosinophils and basophils to sites of allergic inflammation. CCL7 is expressed at low levels in endothelial cells, fibroblasts and mononuclear cells and upregulated by various stimuli including viruses, type I or type II interferons (IFNs). CCL7 (MCP-3) mediates effects on a host of innate and adaptive immune cell types through binding to numerous receptors including CCR1, CCR2, CCR3, CCR5, and CCR10. Various studies have shown that tumor cells and stromal cells also produce high levels of CCL7, while the specific response element and signaling pathways involved are not entirely clear.

References

1. J Van Damme. et al. (1992). J Exp Med.176(1):59-65.
2. P Menten. et al. (1999). Eur J Immunol. 29(2):678-85.
3. Jason W Griffith. et al. (2014). Annu Rev Immunol. 32:659-702.
4. A Ben-Baruch. et al. (1995). J Biol Chem. 270(38):22123-8.
5. Pui Y Lee. et al. (2009). Am J Pathol.175(5):2023-33.

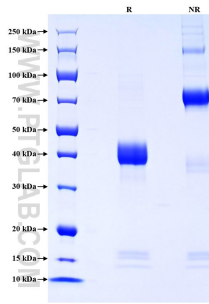
Synonyms

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

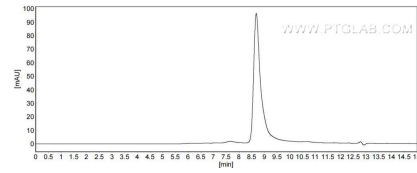
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Selected Validation Data



Purity of Recombinant Mouse CCL7 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 CCL7 was greater than 90% as determined by SEC-HPLC.