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# Recombinant Human CD68 Molecule (CD68)

Catalog No.	Size	Species	Protein Accession No.
230-00036	10, 50, 100 µg	Human	AAH15557

### Synonyms

CD68 molecule; acrosialin; CD68 antigen; scavenger receptor class D, member; macrophage antigen CD68.

### Description

**Cluster of Differentiation 68 (CD68)** is a glycoprotein binding to low density lipoprotein. The equivalent in mouse is named "macrosialin". CD68 is expressed on the cell surface of monocytes/macrophages, considered to be a pan-macrophage antigen. CD68 antigen is a heavily O-glycosylated mucin-like membrane protein sharing high sequence homology of the membrane proximal and cytoplasmic domains to a family of lysosomal/plasma membrane shuttling proteins.

### Preparation

The gene encoding the N-terminal of human CD68 (**Asn22-Ser280**) protein was cloned and expressed in *Escherichia coli*. The recombinant CD68 protein (the truncated form) was purified by proprietary chromatographic techniques.

### Source

Recombinant protein, purified from *E. coli*.

### Predicted Molecular Mass

~28.5 kDa.

### Formulation & Reconstitution

- Fine white powder, lyophilized.
- Recombinant CD68 was lyophilized from a 0.2 µm filtered phosphate-buffered saline (PBS) with a protein concentration of 0.3 mg/mL.

- It is recommended to briefly spin the vial prior to opening, bring the contents to the bottom, and reconstitute the lyophilized product with sterile 18 MΩ-cm deionized water or your desired buffer.

### Stability & Storage

- Lyophilized product is stable at room temperature for 3 weeks, it is recommended to be stored desiccated below -20°C in a manual defrost freezer.
- Upon reconstituted, the protein should be stored at 4°C for one week. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA) and store at -20 or -80°C. **Please avoid repeated freeze-thaw cycles.**

### Purity

>95%, determined by SDS-PAGE and stained with Coomassie blue.

### References

1. Holness CL, Simmons DL. (1993) Molecular cloning of CD68, a human macrophage marker related to lysosomal glycoproteins. *Blood* 81 (6): 1607-13.
2. Osterne R, et al. (2009) Oral Granulocytic Sarcoma : A case report. *Med Oral Patol Oral Cir Bucal* 14 (5): E232-5.
3. Manduch M, et al. (2009) Undifferentiated pancreatic carcinoma with osteoclast-like giant cells: Report of a case with osteochondroid differentiation. *Pathol. Res. Pract.* 205 (5): 353-9.
4. Lewandrowski U., et al. (2006) Elucidation of N-glycosylation sites on human platelet proteins: a glycoproteomic approach. *Mol. Cell. Proteomics* 5:226-233.

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**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**