Recombinant Human CD68/SR-D1 (C-Fc)

Catalog Number: PKSH034029

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

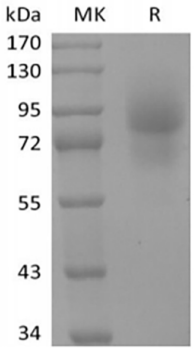
Description

Species	Human
Source	HEK293 Cells-derived Human CD68;SR-D1 protein Asn22-Ile320, with an C-terminal Fc
Calculated MW	58.5 kDa
Observed MW	70-100 kDa
Accession	P34810
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

CD68, also called Scavenger Receptor D1 (SR-D1) and LAMP-4, is a heavily glycosylated type I transmembrane glycoprotein that belongs to the LAMP family. CD68 is expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites. CD68 plays a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cel l-pathogen interactions. It is a commonly used marker for macrophages. CD68 is also a biomarker of rheumatoid arthritis and Hodgkin's lymphoma. CD68 influences the functions of cells through NF-kB/focal adhesion kinase pathway (7). In addition, CD68 on macrophages binds tightly to both S100A8 and S100A9 to enhance the cell immunity.