Biotinylated FMC63 scFv, Fc,Avitag™ (MALS verified)

Catalog # CD9-BV4324b

Source

Biotinylated FMC63 scFv, Fc,Avitag™ is a Mouse monoclonal antibody recombinantly expressed from HEK293 cells.

Species

Mouse

Conjugate

Biotin

Antibody Type

Recombinant Monoclonal

Reactivity

Human

Immunogen

CD19.

Specificity

Specifically recognizes the antigen-recognition domain of CD19-derived CARs.

Application

Application	Recommended Usage
ELISA	10-20000 ng/mL

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Purification

Protein A purified/ Protein G purified

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

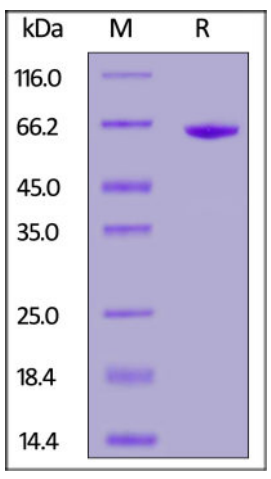
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

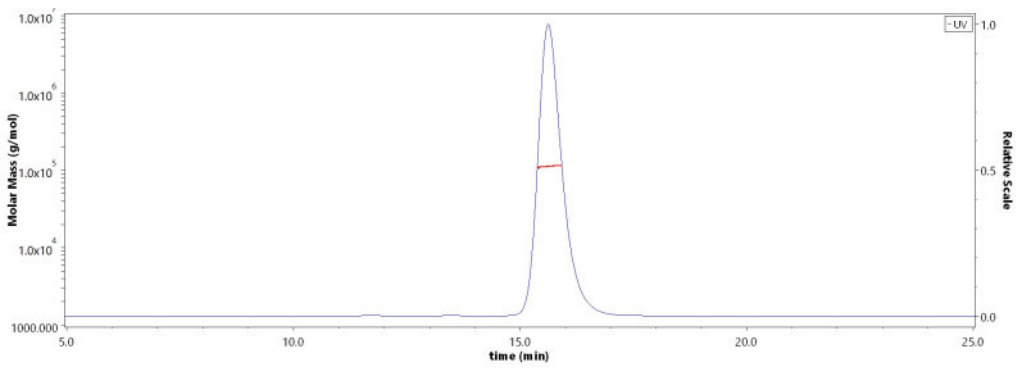
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



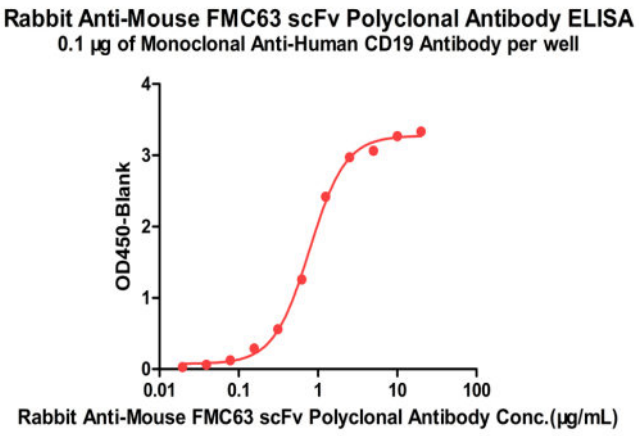
Biotinylated FMC63 scFv, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Biotinylated FMC63 scFv, Fc,Avitag (Cat. No. CD9-BV4324b) is more than 90% and the molecular weight of this protein is around 100-120 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Monoclonal Anti-Human CD19 Antibody, Mouse IgG2a at 1 μg/mL, add increasing concentrations of Rabbit Anti-Mouse FMC63 Polyclonal Antibody (Cat. No. FM3-S93) and then add Biotinylated FMC63 scFv, Fc,Avitag (Cat. No. CD9-BV4324b) at 2 μg/mL. Detection was performed using HRP-conjugated streptavidin with sensitivity of 78 ng/mL (QC tested).

Background

FMC63 is an IgG2a mouse monoclonal antibody specific for CD19, which is a target for the immunotherapy of B lineage leukaemias and lymphomas. FMC63 scFv is the most commonly used ectodomain component of CD19-specific CARs. So far, most of reported CART19 trials contain the anti-CD19 scFv derived from FMC63, including the two FDA-approved CARs Kymriah and Yescarta.

Clinical and Translational Updates