

PRODUCT INFORMATION

CD19 Target

Synonyms B4; CVID3

Recombinant human CD19(M75I,L82V,F83L) Description

Protein with C-terminal human Fc tag

Delivery In Stock **Uniprot ID** P15391 **Expression Host HEK293**

C-Human Fc tag Tag

CD19(M75I,L82V,F83L)(Pro20-Lys291) hFc(Glu99-Molecular

Characterization Ala330)

The protein has a predicted molecular mass of 56.2 kDa after removal of the signal peptide. The

Molecular Weight apparent molecular mass of

CD19(M75I,L82V,F83L)-hFc is approximately

55-100 kDa due to glycosylation.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store Storage & Shipping at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

temperature.

This gene encodes a member of the

immunoglobulin gene superfamily. Expression of this cell surface protein is restricted to B cell lymphocytes. This protein is a reliable marker for pre-B cells but its expression diminishes during terminal B cell differentiation in antibody secreting plasma cells. The protein has two Nterminal extracellular Ig-like domains separated

by a non-lg-like domain, a hydrophobic transmembrane domain, and a large C-terminal cytoplasmic domain. This protein forms a

complex with several membrane proteins including complement receptor type 2 (CD21) and tetraspanin (CD81) and this complex reduces the threshold for antigen-initiated B cell activation. Activation of this B-cell antigen receptor complex

activates the phosphatidylinositol 3-kinase signalling pathway and the subsequent release of intracellular stores of calcium ions. This protein is a target of chimeric antigen receptor (CAR) T-cells used in the treatment of lymphoblastic leukemia. Mutations in this gene are associated with the disease common variable immunodeficiency 3

(CVID3) which results in a failure of B-cell differentiation and impaired secretion of immunoglobulins. CVID3 is characterized by hypogammaglobulinemia, an inability to mount an antibody response to antigen, and recurrent bacterial infections. Alternative splicing results in multiple transcript variants encoding distinct

isoforms. [provided by RefSeq, Jul 2020]

Usage Research use only

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Background

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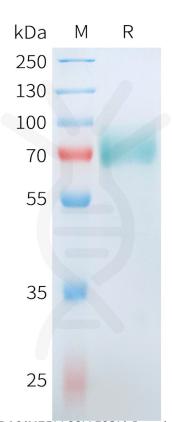


Figure 1. Human CD19(M75I,L82V,F83L) Protein, hFc Tag on SDS-PAGE under reducing condition.

Human CD19 (M75I,L82V,F83L), hFc Tagged protein ELISA

0.2 μg of Human CD19(M75I,L82V,F83L), hFc tagged protein per well

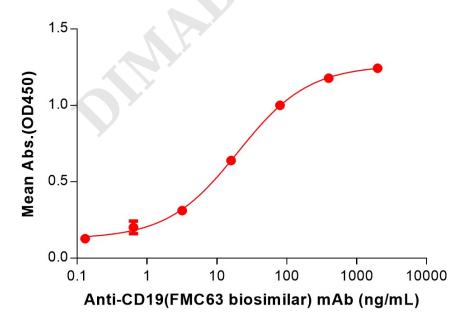


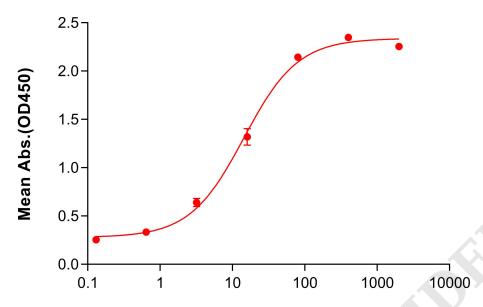
Figure 2. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human CD19 (M75I,L82V,F83L) Protein, hFc Tag (PME101557) can bind Anti-CD19(FMC63 biosimilar) mAb (BME100094) in a linear range of 3.20-400 ng/mL.
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Human CD19 (M75I,L82V,F83L), hFc Tagged protein ELISA

 $0.2~\mu g$ of Human CD19 (M75I,L82V,F83L), hFc tagged protein per well



Anti-CD19(tafasitamab biosimilar) mAb mAb (ng/mL)

Figure 3. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human CD19 (M75I,L82V,F83L) Protein, hFc Tag (PME101557) can bind Anti-CD19(tafasitamab biosimilar) mAb (BME100683) in a linear range of 3.2–16 ng/mL.

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