

CD19 Protein, Human, Recombinant (CHO, hFc)

General Information

Synonyms:	CVID3;CD19 molecule;B4
Protein Construction:	Pro20-Lys291
Species:	Human
Expression Host:	CHO Cells
Accession:	P15391
Molecular Weight:	57.3 kDa (Predicted); 80-95 kDa (Reducing conditions)

QC Testing

Biological Activity:	Immobilized Human FMC63 at 2 µg/ml (100 µl/well) can bind Human CD19-Fc. The ED50 of Recombinant Human CD19-Fc is 55.28 ng/ml. Loaded Anti-Human CD19 mAb-Fc on AMC Biosensor, can bind Human CD19-FC with an affinity constant of 2.72 nM as determined in BLI assay.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD19 is a single-pass type I membrane protein containing 2 Ig-like C2-type (immunoglobulin-like) domains. CD19 is expressed on follicular dendritic cells and B cells. In fact, it is present on B cells from earliest recognizable B-lineage cells during development to B-cell blasts but is lost on maturation to plasma cells. CD19 primarily acts as a B cell co-receptor in conjunction with CD21 and CD81. Upon activation, the cytoplasmic tail of CD19 becomes phosphorylated, which leads to binding by Src-family kinases and recruitment of PI-3 kinase. CD19 Assembles

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with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481