Human CD19 Protein, Ultra Low Endotoxin

Cat. No. CD1-HM119-UL

Description

Source	Recombinant Human CD19 Protein is expressed from HEK293 with His tag at the C-Terminus It contains Pro20-Lys291.
Accession	P15391-1
Molecular Weight	The protein has a predicted MW of 34.7 kDa. Due to glycosylation, the protein migrates to 50-60 KDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE

Formulation and Storage

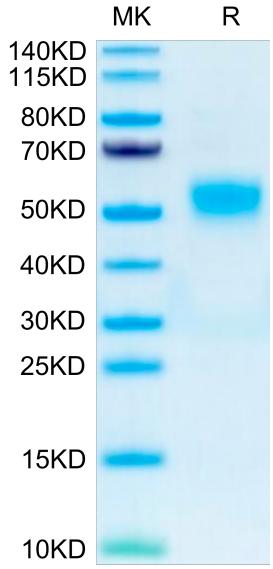
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD19 is a 95 kDa transmembrane glycoprotein that plays a central role in B cell activation and humoral immune responses. Functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens. Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca2 stores.

Assay Data

Bis-Tris PAGE



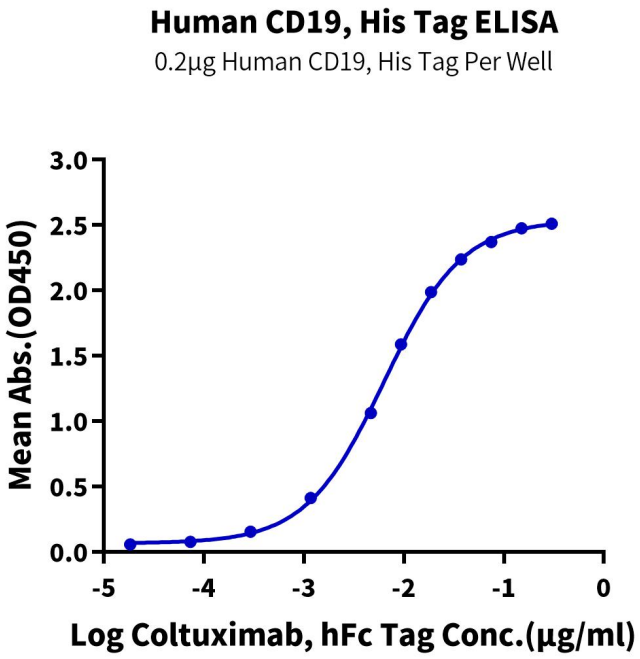
Human CD19 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

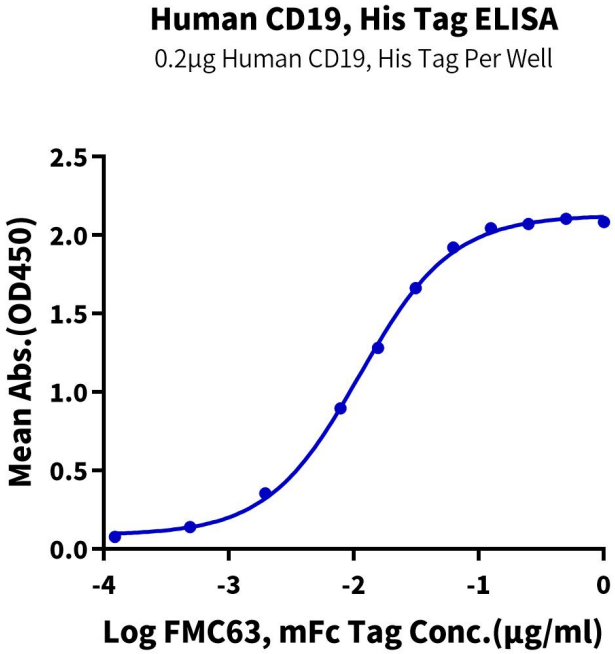
Human CD19 Protein, Ultra Low Endotoxin

Cat. No. CD1-HM119-UL

Assay Data



Immobilized Human CD19, His Tag at 2 μg/ml (100 μl/Well) on the plate. Dose response curve for Coltuximab, hFc Tag with the EC50 of 6.3 ng/ml determined by ELISA (QC Test).

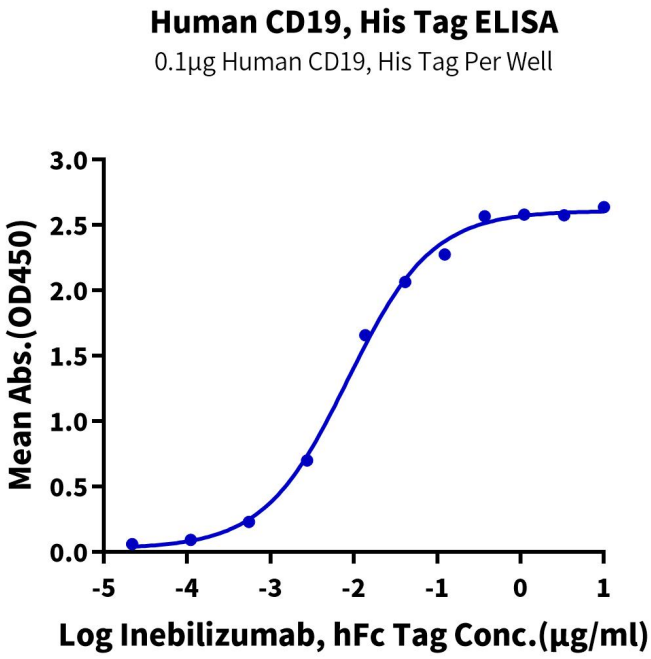


Immobilized Human CD19, His Tag at 2 μg/ml (100 μl/well) on the plate. Dose response curve for FMC63, mFc Tag with the EC50 of 11.1 ng/ml determined by ELISA (QC Test).

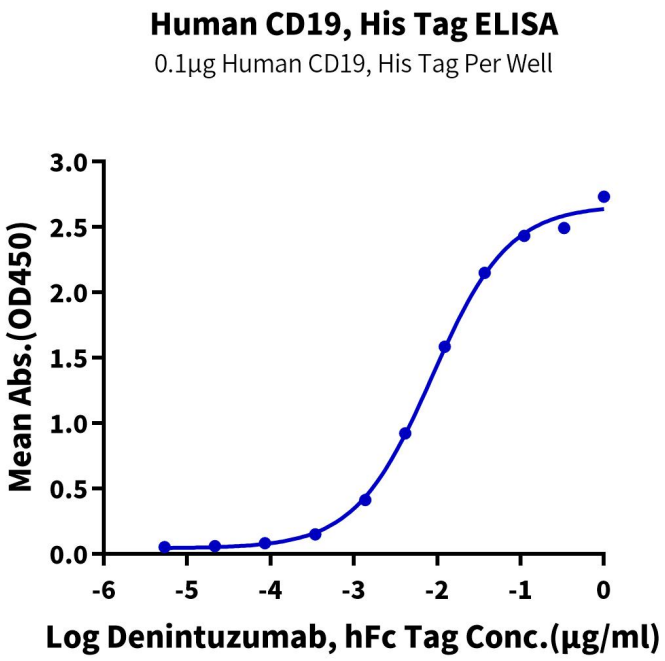
Human CD19 Protein, Ultra Low Endotoxin

Cat. No. CD1-HM119-UL

Assay Data

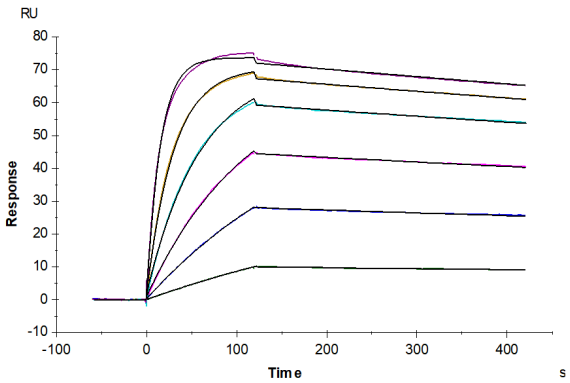


Immobilized Human CD19, His Tag at 1 μg/ml (100 μl/Well) on the plate. Dose response curve for Inebilizumab, hFc Tag with the EC50 of 8.5 ng/ml determined by ELISA.



Immobilized Human CD19, His Tag at 1 μg/ml (100 μl/well) on the plate. Dose response curve for Denintuzumab, hFc Tag with the EC50 of 8.6 ng/ml determined by ELISA.

SPR Data



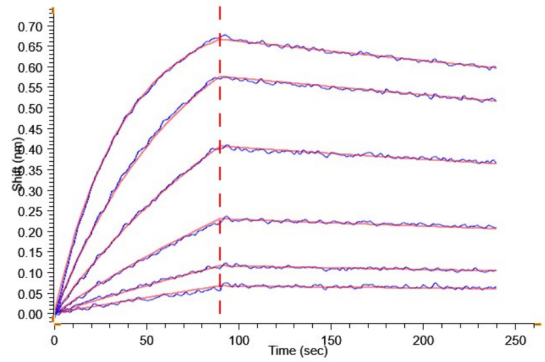
Anti-CD19 Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Human CD19, His Tag with an affinity constant of 0.50 nM as determined in SPR assay (Biacore T200).

BLI Data

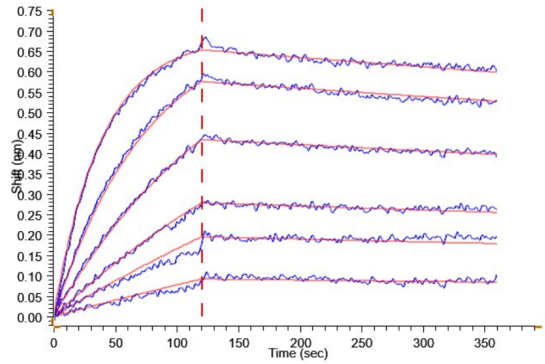
Human CD19 Protein, Ultra Low Endotoxin

Cat. No. CD1-HM119-UL

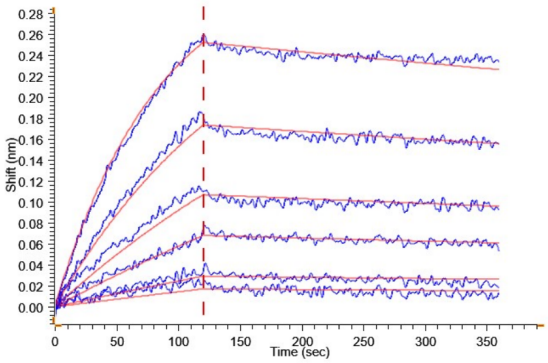
Assay Data



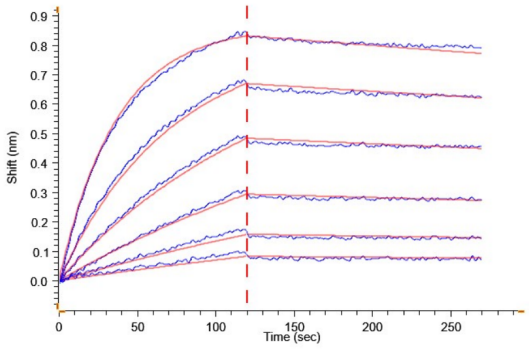
Loaded Coltuximab on ProA-Biosensor can bind Human CD19, His Tag with an affinity constant of 5.65 nM as determined in BLI assay .



Loaded FMC63 on MFc-Biosensor can bind Human CD19, His Tag with an affinity constant of 1.44 nM as determined in BLI assay .



Loaded Inebilizumab on ProA-Biosensor can bind Human CD19, His Tag with an affinity constant of 8.03 nM as determined in BLI assay .



Loaded Denintuzumab, hFc Tag on ProA-Biosensor, can bind Human CD19, His Tag with an affinity constant of 3.73 nM as determined in BLI assay (Gator).