

Biotinylated Human CD19 Protein

Cat. No. CD1-HMR102



Description

Source	Recombinant Biotinylated Human CD19 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Pro20-Lys291.
Accession	P15391-1
Molecular Weight	The protein has a predicted MW of 36 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

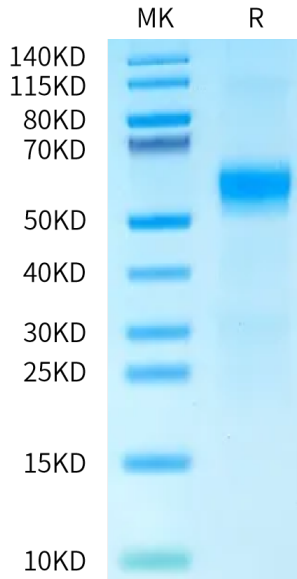
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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



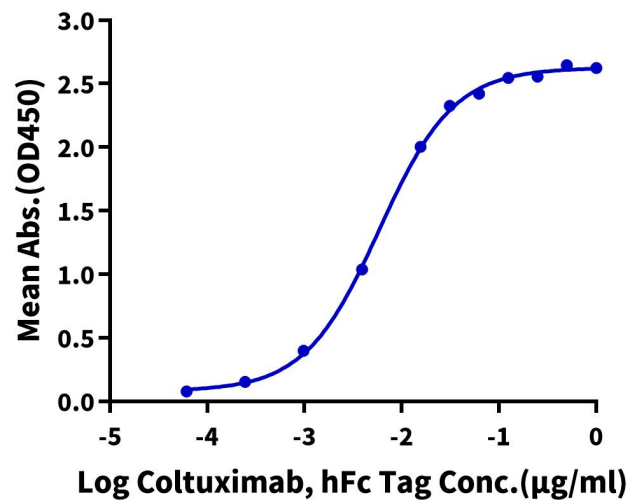
Biotinylated Human CD19 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Assay Data

Biotinylated Human CD19, His-Avi Tag ELISA

0.2µg Biotinylated Human CD19, His-Avi Tag Per Well

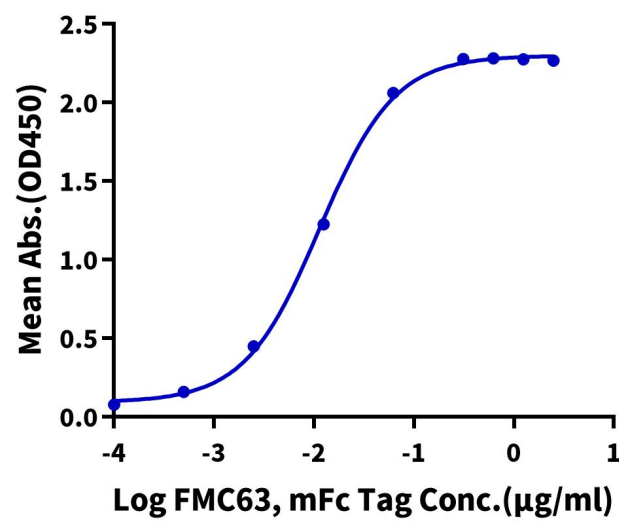


Immobilized Biotinylated Human CD19, His-Avi Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Coltuximab, hFc Tag with the EC50 of 6.6ng/ml determined by ELISA (QC Test).

ELISA Data

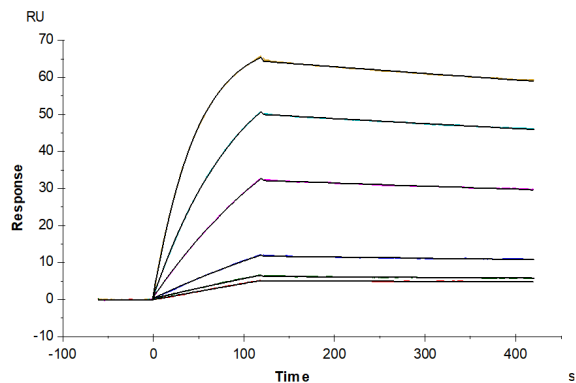
Biotinylated Human CD19, His Tag ELISA

0.2µg Biotinylated Human CD19, His Tag Per Well



Immobilized Biotinylated Human CD19, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for FMC63, mFc Tag with the EC50 of 11.4ng/ml determined by ELISA.

SPR Data



Anti-CD19 Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human CD19, His Tag with an affinity constant of 0.64 nM as determined in SPR assay (Biacore T200).