

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 1EU per µg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE

Formulation and Storage

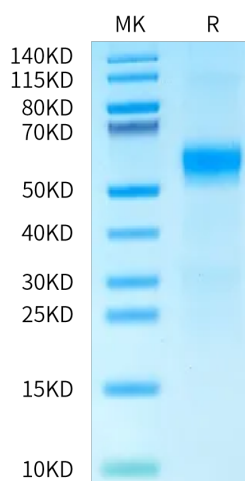
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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

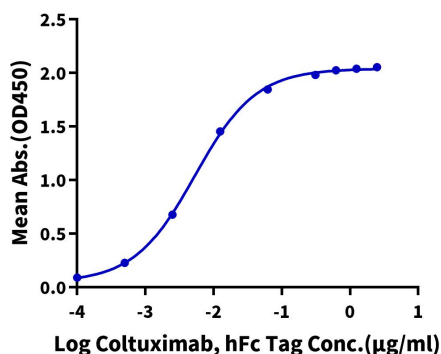


Biotinylated Human CD19 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Biotinylated Human CD19, His Tag ELISA

0.2µg Biotinylated Human CD19, His Tag Per Well



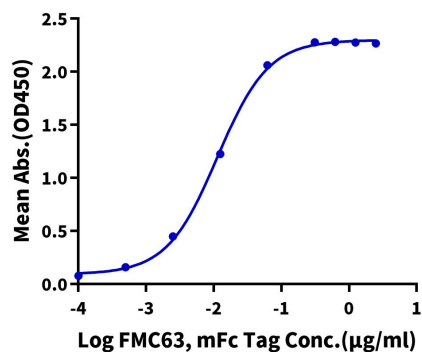
Immobilized Biotinylated Human CD19, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Coltuximab, hFc Tag with the EC₅₀ of 5.4ng/ml determined by ELISA (QC Test).

Assay Data

ELISA Data

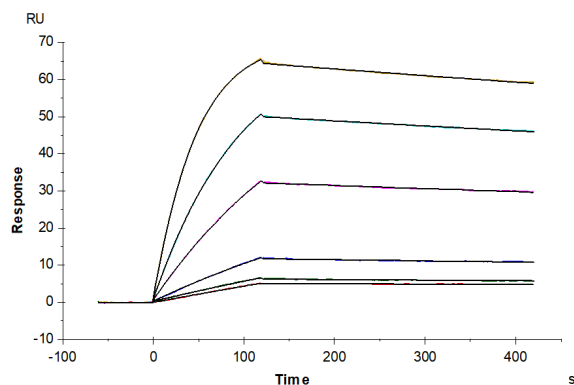
Biotinylated Human CD19, His Tag ELISA

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).