FITC-Compatible Human CD19 Protein

Cat. No. CD1-HM119F

Description

Source	FITC-Compatible 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 60.1 kDa. Due to glycosylation, the protein migrates to 68-72 kDa based on Tris-Bis PAGE result.
Wavelength	Excitation Wavelength: 490 nm
	Emission Wavelength: 520 nm
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

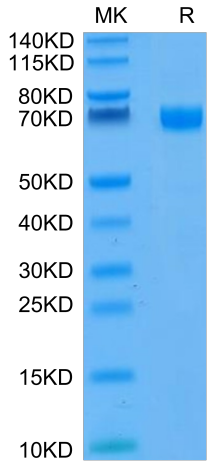
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD19 is a B-lineage-specific transmembrane glycoprotein, the expression of which is maintained on more than 95% B-cell malignancies. This strict lineage restriction makes CD19 an ideal target for immune therapies using chimeric antigen receptors (CARs). T cells engineered to express a chimeric antigen receptor (CAR) against CD19 have recently been FDA approved for the treatment of relapsed or refractory large B-cell lymphoma. Despite the success and curative potential of CD19 CAR T cells, several reports describing disease relapse due to antigen loss are now emerging.

Assay Data

Tris-Bis PAGE



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

SEC-HPLC

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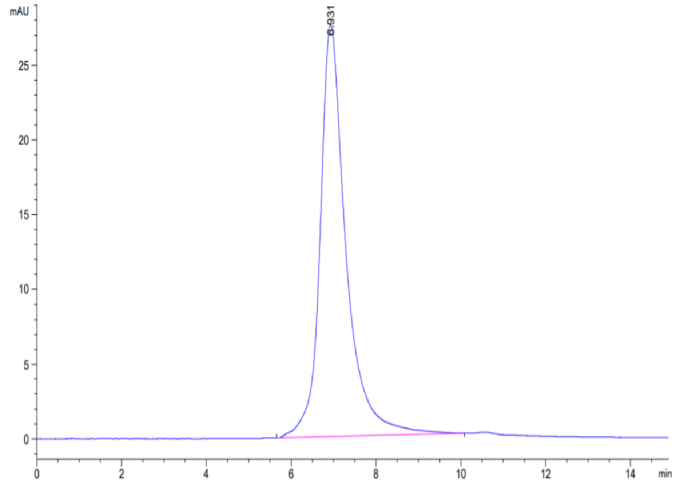
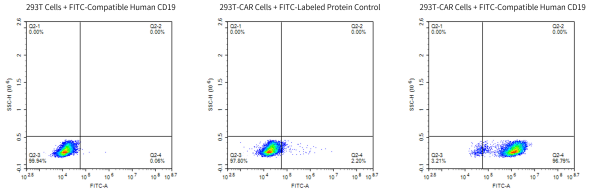
Assay Data



The purity of FITC-Compatible Human CD19 is greater than 95% as determined by SEC-HPLC.

FACS Data



Use 100 μl FITC-Compatible Human CD19 (10 μg/ml) to detect the positive rate of 1×10^6 anti-CD19 CAR cells and FITC-labeled irrelevant protein (100 μl, 10 μg/ml) was served as a negative control.