Human CD58 Protein

Cat. No.　　CD5-HM208

KACTUS

Description

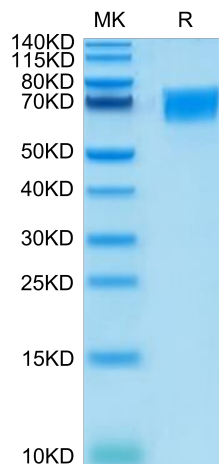|	
Source	Recombinant Human CD58 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Phe29-Arg215.
Accession	AAH05930
Molecular Weight	The protein has a predicted MW of 48.1 kDa. Due to glycosylation, the protein migrates to 65-75 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Loss of CD58 is a common mechanism for tumor immune evasion in lymphoid malignancies. CD58 loss is known to occur due to both genetic and non-genetic causes; therefore, we hypothesized that restoring CD58 expression in lymphoma cells may be an effective treatment approach. EZH2 is involved in the epigenetic silencing of CD58 in lymphoma cells as a mechanism for tumor immune escape, and EZH2 inhibitors are able to restore epigenetically suppressed CD58 expression.
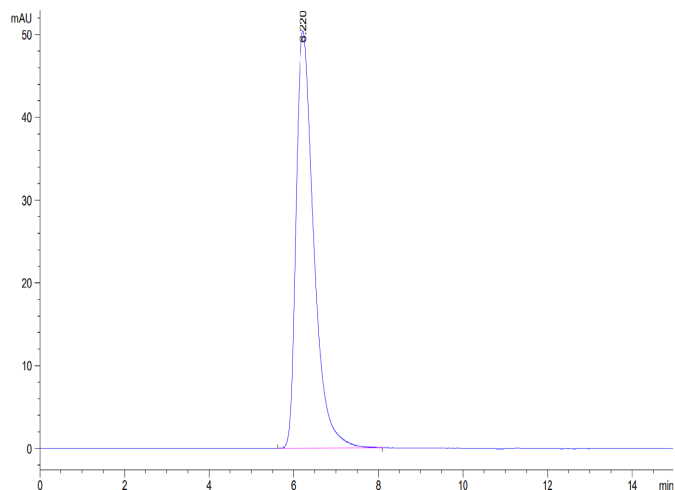
Assay Data

Tris-Bis PAGE

Human CD58 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
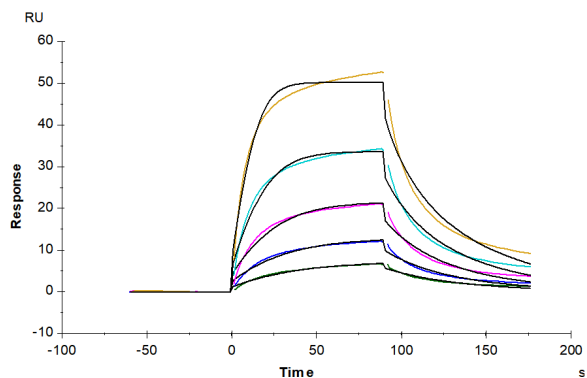
SEC-HPLC

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Assay Data

The purity of Human CD58 is greater than 95% as determined by SEC-HPLC.

SPR Data

Human CD2, His Tag captured on CM5 Chip via anti-his antibody can bind Human CD58, hFc Tag with an affinity constant of 15.48 nM as determined in SPR assay (Biacore T200).

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