Mouse CD47 Protein

Cat. No. CD7-MM247



Description	
Source	Recombinant Mouse CD47 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Gln19-Lys140.
Accession	Q61735-1
Molecular Weight	The protein has a predicted MW of 40.60 kDa. Due to glycosylation, the protein migrates to 60-70 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
	> 95% as determined by HPLC

Formulation and Storage

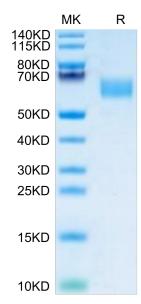
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose / 15% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD47 (Cluster of Differentiation 47) also known as integrin associated protein (IAP) is a transmembrane protein that in humans is encoded by the CD47 gene. CD47 belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory protein alpha (SIRP α).CD-47 acts as a don't eat me signal to macrophages of the immune system which has made it a potential therapeutic target in some cancers.

Assay Data

Bis-Tris PAGE

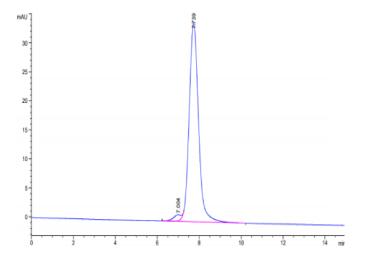


Mouse CD47 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

Assay Data

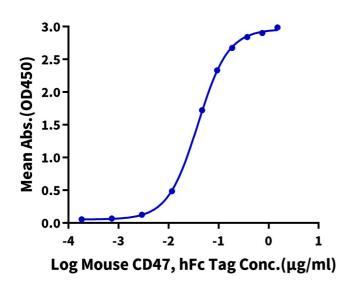


The purity of Mouse CD47 is greater than 95% as determined by SEC-HPLC.

ELISA Data

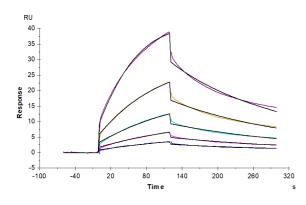
Mouse CD47, hFc Tag ELISA

0.2μg Mouse SIRP alpha, His Tag Per Well



Immobilized Mouse SIRP alpha, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Mouse CD47, hFc Tag with the EC50 of 38.6ng/ml determined by ELISA (QC Test).

SPR Data



Mouse CD47, hFc Tag captured on CM5 Chip via Protein A can bind Mouse SIRP alpha, His Tag with an affinity constant of 28.33 nM as determined in SPR assay (Biacore T200).