

Mouse CD47 Protein

Cat. No. CD7-MM147



Description	
Source	Recombinant Mouse CD47 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln19-Lys140.
Accession	Q61735-1
Molecular Weight	The protein has a predicted MW of 14.9 kDa. Due to glycosylation, the protein migrates to 35-50 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 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	
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 (SIRPα). 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



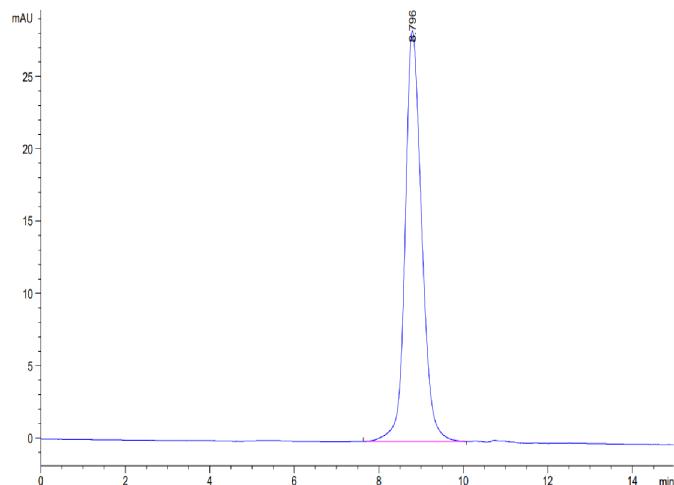
Mouse CD47 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Mouse CD47 Protein

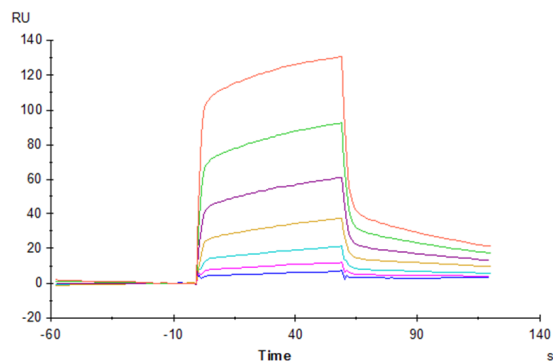
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Assay Data



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

SPR Data



Mouse SIRP alpha, His Tag immobilized on CM5 Chip can bind Mouse CD47, His Tag with an affinity constant of 1.33 μ M as determined in SPR assay (Biacore T200).