

Biotinylated Human PCSK9 Protein

Cat. No. PCS-HM490B



Description

Source	Recombinant Biotinylated Human PCSK9 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Gln31-Gln692.
Accession	Q8NBP7-1
Molecular Weight	The protein has a predicted MW of 73.95 kDa. Due to autocatalytic cleavage, the protein migrates to 15-17 kDa (pro-peptide) and 65-85 kDa (mature chain) 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	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

Proprotein convertase subtilisin/kexin type 9 (PCSK9) is an enzyme encoded by the PCSK9 gene in humans on chromosome 1. The first two PCSK9 inhibitors, alirocumab and evolocumab, were approved as once every two week injections, by the U.S. Food and Drug Administration in 2015 for lowering LDL-particle concentrations when statins and other drugs were not sufficiently effective or poorly tolerated.

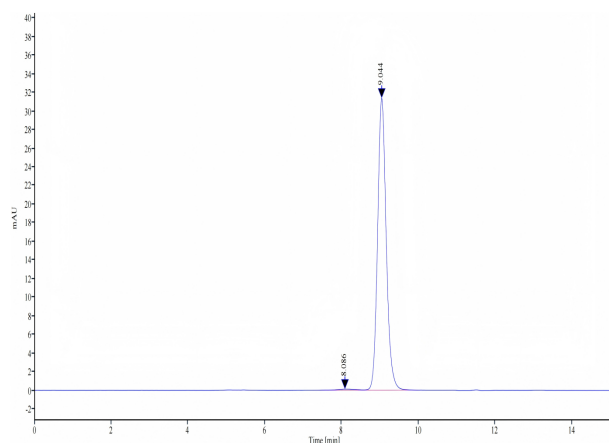
Assay Data

Bis-Tris PAGE



Biotinylated Human PCSK9 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human PCSK9 is greater than 95% as determined by SEC-HPLC.

Biotinylated Human PCSK9 Protein

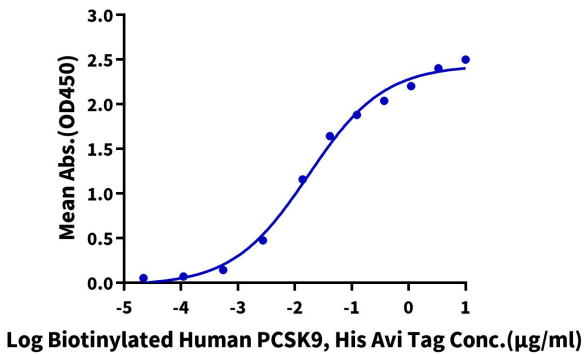
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Assay Data

ELISA Data

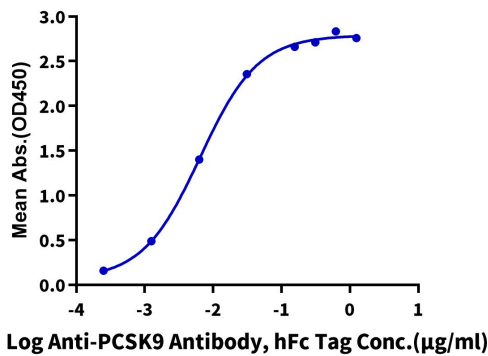
Biotinylated Human PCSK9, His Avi Tag ELISA
0.5µg Human LDLR, hFc Tag Per Well



Immobilized Human LDLR, hFc Tag (Cat. LDL-HM201) at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human PCSK9, His Avi Tag with the EC50 of 17.3ng/ml determined by ELISA.

ELISA Data

Biotinylated Human PCSK9, His-Avi Tag ELISA
0.05µg Biotinylated Human PCSK9, His-Avi Tag Per Well



Immobilized Biotinylated Human PCSK9, His-Avi Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-PCSK9 Antibody, hFc Tag with the EC50 of 6.5ng/ml determined by ELISA.