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Datasheet for ABIN7275414

PCSK9 Protein (AA 151-811) (His tag)

3 Images

Overview

Quantity:	100 µg
Target:	PCSK9
Protein Characteristics:	AA 151-811
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PCSK9 protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus PCSK9 Protein
Sequence:	Glu151-Gln811
Characteristics:	Recombinant Cynomolgus PCSK9 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu151-Gln811.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.27 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	PCSK9
Alternative Name:	PCSK9 (PCSK9 Products)
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.
Molecular Weight:	Due to autocatalytic cleavage, the protein release the pro-form (59 kDa) and mature form (14 kDa). Due to glycosylation, the protein migrates to 65-70 kDa (pro-form) and 15-20 kDa (mature form) based on Tris-Bis PAGE result.
UniProt:	A0A2K5TZC4

Application Details

Restrictions:	For Research Use only
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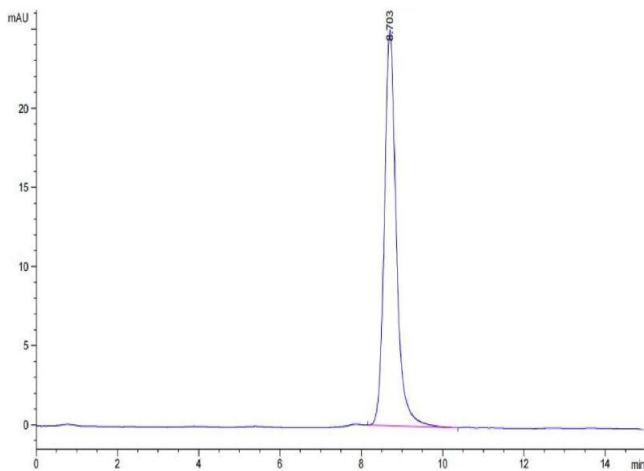
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months 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.
Expiry Date:	12 months



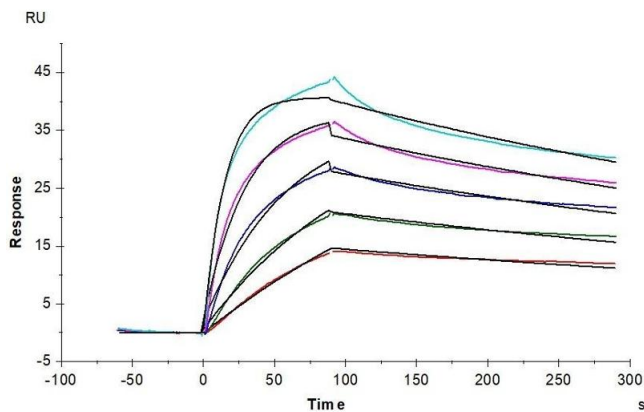
SDS-PAGE

Image 1. Cynomolgus PCSK9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Cynomolgus PCSK9 is greater than 95 % as determined by SEC-HPLC.



Surface Plasmon Resonance

Image 3. Cynomolgus LDLR, His Tag immobilized on CM5 Chip can bind Cynomolgus PCSK9, His Tag with an affinity constant of 0.27 nM as determined in SPR assay (Biacore T200).