

## Data Sheet

### PCSK9, Biotinylated

Human, recombinant, C-terminal Avi-His Tags

**Catalog #:** w81316

**Lot #:** 141021-BD1

**Conc.:** 1.77 mg/ml

**Formulated in:** 40 mM Tris, pH 8.0, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol.

**Stability:** At least 6 months at  $-80^{\circ}\text{C}$ . Avoid freeze/thaw cycles. Storing diluted protein is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).

#### References:

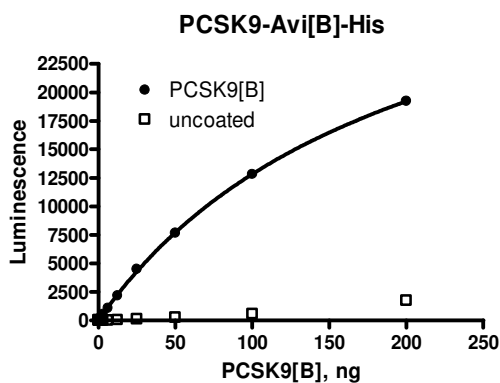
1. Abifadel, M., *et al.*, *Nat Genet.* 2003 Jun;**34**(2):154-6.
2. Abifadel, M., *et al.*, *Hum Mutat.* 2009 Apr;**30**(4):520-9.

**Description:** Human proprotein convertase subtilisin/kexin type 9 (PCSK9), also known as FH3, HCHOLA3, and PC9, GenBank Accession No. NM\_174936, a.a. 31-692(end), with C-terminal Avi and His tags, MW=73.8 kDa (calculated), expressed in an HEK293 cell expression system and enzymatically biotinylated using AviTag™ technology. PCSK9 is autocleaved to the ~14 kDa pro-domain (a.a. 31-152) and the ~60 kDa mature form (a.a. 153-692(end)), which run at higher apparent MW by SDS-PAGE.

**Assay Conditions:** 50 mL reaction mix (50 mM HEPES pH 7.4, 50 mM NaCl, 200  $\mu\text{M}$   $\text{CaCl}_2$ , 0.05% Tween, 0.1% BSA, and 0–200 ng Biotin-Labeled PCSK9) is added to wells coated with LDLR ectodomain. Incubate for 2 hr. Add streptavidin-labeled HRP and incubate 1 hr. Finally, add HRP chemiluminescent substrates and read luminescence.

**Application:** Useful for studying protein binding and screening small molecules.

## Quality Assurance

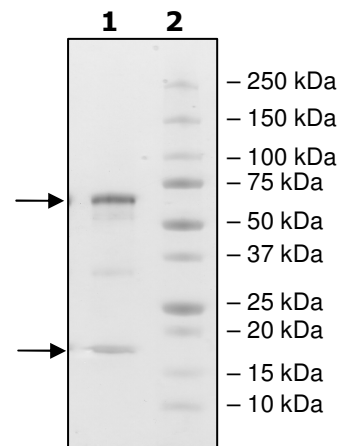


### 4-20% SDS-PAGE Coomassie staining

**Lane 1:**  
4  $\mu\text{g}$  PCSK9

**Lane 2:**  
Protein Marker

**MW:** 73.8 kDa  
**Purity:**  $\geq 80\%$



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**Protein Sequence:**

QEDEDGDYEELVVALRSEEDGLAEAPEHGTTATFHRCADPWRLPGTYVVVLKEETHL  
SQSERTARRLQAQAARRGYLTKILHVFHGLLPGLVKMSGDLLELALKLPHVDYIEEDS  
SVFAQSIPWNLERITPPRYRADEYQPPDGGSLVEVYLLDTSIQSDHREIEGRVMVTD  
NVPEEDGTRFHRQASKCD SHGTHLAGVVSGRDAGVAKGASMRSLRVLNCCQKGTVS  
GTLIGLEFIRKSQLVQPVGPLVVLLPLAGGYSRVLNAACQRLARAGVVLVTAAGNFRDD  
ACLYSPASAPEVITVGATNAQDQPVTLGTLGTNFGRCVDLFAPGEDIIIGASSDCSTCFV  
SQSGTSQAAAHVAGIAAMMLSAEPELTLAELRQRLIHFSKDVINEAWFPEDQRVLTPN  
LVAALPPSTHGAGWQLFCRTVWSAHS GPTRMATAVARCAPDEELLSCSSFSRSGKRR  
GERMEAQGGKLV CRAHNAFGGEGVYAIARCCLLPQANCSVHTAPPAEASMGTRVHC  
HQQGHVLTGCSSHWEVEDLGTHKPPVLRPRGQPNQCVGHREASIHASCCHAPGLEC  
KVKEHGIPAPQEQVTVACEEGWTLTGCSALPGTSHVLGAYAVDNTCVVRSRDVSTTG  
STSEGAVTAVAICCRSRHLAQASQELQGGGLNDIFEAQKIEWHEHHHHH

Green: Pro-PCSK9 31-152

Black: PCSK9 a.a. 153-692(end)

Blue: AviTag

Red: His tag

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