

Product datasheet for PH322498

Proprotein Convertase 2 (PCSK2) (NM_002594) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PCSK2 MS Standard C13 and N15-labeled recombinant protein (NP_002585)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222498
Predicted MW:	70.57 kDa
Protein Sequence:	>RC222498 representing NM_002594 Red=Cloning site Green=Tags(s)

MKGGCVSQWAAAAGFLFCVMVFAAERPVFTNHFLVELHKGGEDKARQVAAEHGFGVRKLPFAEGLYHFY
HNGLAKAKRRRSLHKKQLERDPRVKMALQQEGFDRKKRKYRDINEIDINMNDPLFTKQWYLINTGQADG
TPGLDLNVAEAWELGYTGKGVITIGIMDDGIDYLPDLASNYNAEASYDFSSNDPYPYPRYTDDWFNSHGT
RCAGEVSAANNNICGVAAYNSKVAGIRMLDQPFMTDIEASSISHMPQLIDIYSASWGPTDNGKTVDG
PRELTLQAMADGVNKGKGGKSIYVWASGDGGSYDDCNCDDGYASSMWTISINSAINDGRTALYDESCSST
LASTFSNGRKRNPAGVATTDLYGNCTLRHSGTSAAPEAAGVFALALEANLGLTWRDMQHLTVLTSKRN
QLHDEVHQWRRNGVGLFNHLFGYGVLDAGAMVKMAKDWKTVPERFHCVGGSVQDPEKIPSTGKLVLTLT
TDACEGKENFVRYLEHVQAVITVNATRRGDLNINMTSPMGTKSILLRRRPRDDDSKVGFDKWPFTTHTW
GEDARGTWLELGFVGSAPQKGVLEWTLMLHGTQSAPYIDQVVRDYQSKLAMSKKEELEEELDEAVERS
LKSILNKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002585
RefSeq Size:	4745



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RefSeq ORF: 1914

Synonyms: NEC-2; NEC 2; NEC2; PC2; SPC2

Locus ID: 5126

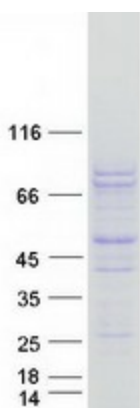
UniProt ID: [P16519](#)

Cytogenetics: 20p12.1

Summary: This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The protein undergoes an initial autocatalytic processing event and interacts with a neuroendocrine secretory protein in the ER, exits the ER and sorts to secretory granules, where it is cleaved and catalytically activated during intracellular transport. The encoded protease is packaged into and activated in dense core secretory granules and expressed in the neuroendocrine system and brain. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It functions in the proteolytic activation of polypeptide hormones and neuropeptides precursors. Single nucleotide polymorphisms in this gene may increase susceptibility to myocardial infarction and type 2 diabetes. This gene may also play a role in tumor development and progression. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2014]

Protein Families: Druggable Genome, Protease, Secreted Protein

Product images:



Coomassie blue staining of purified PCSK2 protein (Cat# [TP322498]). The protein was produced from HEK293T cells transfected with PCSK2 cDNA clone (Cat# [RC222498]) using MegaTran 2.0 (Cat# [TT210002]).