

Recombinant Human PC Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PC-4571H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PC MS Standard C13 and N15-labeled recombinant protein (NP_000911) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes pyruvate carboxylase, which requires biotin and ATP to catalyse the carboxylation of pyruvate to oxaloacetate. The active enzyme is a homotetramer arranged in a tetrahedron which is located exclusively in the mitochondrial matrix. Pyruvate carboxylase is involved in gluconeogenesis, lipogenesis, insulin secretion and synthesis of the neurotransmitter glutamate. Mutations in this gene have been associated with pyruvate carboxylase deficiency. Alternatively spliced transcript variants with different 5' UTRs, but encoding the same protein, have been found for this gene.
Molecular Mass	129.63 kDa
AA Sequence	MLKFRTVHGGLRLLGIRRTSTAPAASPNVRRLEYKPIKKVMVANRGEIAIRVFRACTE LGIRTVAIYSEQDTGQMHRQKADEAYLIGRGLAPVQAYLHIPDIIKVAKENNVDVHP GYGFLSERADFAQACQDAGVRFIGPSPEVVRKMGDKVEARAIAAAGVPVVPGTDA PITSLHEAHEFSNTYGFPIIFKAAAYGGGGRGMRVVHSYEELEENYTRAYSEALAAFG NGALFVEKFIEKPRHIEVQILGDQYGNILHLYERDCSIQRRHQKVVEIAPAAHLDLPQLR

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TRLTSDSVKLAKQVGYENAGTVEFLVDRHKGKHYFIEVNSRLQVEHTVTEEITDVDLV
 HAQIHVAEGRSLPDLGLRQENIRINGCAIQCRVTTEDPARSFQPD TGRIEVFRSGEG
 MGIRLDNASAFQGAVISPHYDSL LVKVIAHGKDHPTAATKMSRALAEFRVRGVKTNIA
 FLQNVLNNQQFLAGTVDTQFIDENPELFQLRPAQNRAQKLLHYLGHV MVNGPTTPIP
 VKASPSPTDPVVPVAVPIGPPPAGFRDILLREGPEGFARAVRNHPGLLLMDTTFRDAH
 QSLLATRVTRTHDLKKIAPYVAHNFSKLF SMENWGGATFDVAMRFLYECPWRRRLQEL
 RELIPNIPFQMLLRGANAVGYTNYPDNVVFKEVAKENGMDVFRVFD SLNYLPNML
 LGMEAAGSAGGVVEAAISYTG DVADPSRTKYSLQYYMGLAEELVRAGTHILCIKDMA
 GLLKPTACTMLVSSLRDRFPDLPLHIHHTDTS GAGVAAMLACAQAGADVVDVAADS
 MSGMTSQPSMGALVACTRG TPLDTEVPMERVF DYSEYWEGARGLYAAFDCTATM
 KSGNSDVYENEIPGGQYTNLHFQAHS MGLGSKFKEVKKAYVEANQMLGDLIKVTPS
 SKIVGDLAQFMVQNGLSRAEAEQA EELSFP RSVVEFLQGYIGVPHGGFPEPFRSK
 VLKDLPRVEGRPGASLPPLDLQALEKELVDRHGEEVTPEDVLSAAMY PDVFAHFKD
 FTATFGPLDSL NTRLFLQGPKIAEEFEVELERGKTLHIKALAVSDLN RAGQRQVFFEL
 NGQLRSILVKDTQAMKEMHFHPKALKDVKGQIGAPMPGKVIDIKV VAGAKVAKGQPL
 CVLSAMKMETVVTSPMEGTVRKVHVTKDMTLEGDDLILEIETRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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Gene Name	PC pyruvate carboxylase [Homo sapiens (human)]
Official Symbol	PC
Synonyms	PC; pyruvate carboxylase; pyruvate carboxylase, mitochondrial; PCB; pyruvic carboxylase;
Gene ID	5091
mRNA Refseq	NM_000920
Protein Refseq	NP_000911
MIM	608786
UniProt ID	P11498
SDS-PAGE	