

# Recombinant Full Length Human PC Protein, C-Flag-tagged

**Cat. No.** PC-1561HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human PC Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	<p>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.</p>
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	127.4 kDa
<b>AA Sequence</b>	<p>MLKFRTVHGGLRLLGIRRTSTAPAASPNNRLEYKPIKKVMVANRGEIAIRVFRACTE            LGIRTVAIYSEQ DTGQMHRQKADEAYLIGRGLAPVQAYLHIPDIIKVAKENNVDAVHP            GYGFLSERADFAQACQDAGVRFIG PSPEVVRKMGDKVEARAIAAAGVPVVPGTDA            PITSLHEAHEFSNTYGFPIIFKAAAYGGGGRGMRVVHSY EELEENYTRAYSEALAAFG            NGALFVEKFIEKPRHIEVQILGDQYGNILHLYERDCSIQRRHQKVVEIAPA AHLDPQL</p>

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RTRLTSDSVKLAKQVGYENAGTVEFLVDRHGKHYFIEVNSRLQVEHTVTEEITDVDL  
 VHAQIH VAEGRSLPDLGLRQENIRINGCAIQCRVTTEDPARSFQPD TGRIEVFRSGE  
 GMGIRLDNASAFQGAVISP HYDSSLVKVIAHGKDHPTAATKMSRALAEFRVRGVKT  
 NIAFLQNVLNNQQFLAGTVDTQFIDENPELFL RPAQNRAQKLLHYLGHVMVNGPT  
 TPIPVKASPSPTDPVPAVPIGPPPAGFRDILLREGPEGFARAVRNH PGLLLMDTTF  
 RDAHQSLLATRVRTHDLKKIAPYVAHNFSKLFSMENWGGATFDVAMRFLYEC PWR  
 RLQEL RELIPNIPFQMLLRGANAVGYTNYPDNVVFKEVAKENGMDVFRVFD SLN  
 YLPNMLLGMEAAGSAGGVV EAAISYTG DVADPSRTKYSLQYYMGLAEELVRAGTHI  
 LCIKDMAGLLKPTACTMLVSSLRDRFPDLPLHI HTHDTS GAGVAAMLACAQAGADV  
 VDVAADSMMSGMTSQPSMGALVACTRG TPLDTEVPMERVF DYSEYWEG ARGLYAA  
 FDCTATMKSGNSDVYENEIPGGQYTNLHFQAHSMGLGSKFKEVKKAYVEANQMLG  
 DLIKVTPS SKIVGDLAQFMVQNGLSRAEAEAEELSFP RSVVEFLQGYIGVPHGGF  
 PEPFRSKVLKDLPRVEGRPGA SLPPLDLQALEKELVDRHGEEVTPEDVLSAAMY PD  
 VFAHFKDFTATFGPLDSL NTRLFLQGPKIAEEFEV ELERGKTLHIKALAVSDLN RAGQ  
 RQVFFELNGQLRSILVKDTQAMKEMHFHPKALKDVKGQIGAPMPGKV  
 IDIKVVAGAKVAKGQPLCVLSAMKMETVVTSPMEGT VRKVHVTKDMTLEGDDLILEIE  
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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<b>Protein Families</b>	Druggable Genome
<b>Protein Pathways</b>	Citrate cycle (TCA cycle), Metabolic pathways, Pyruvate metabolism
<b>Full Length</b>	Full L.

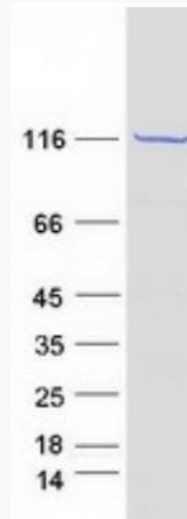
## GENE INFORMATION

<b>Gene Name</b>	PC pyruvate carboxylase [ Homo sapiens (human) ]
<b>Official Symbol</b>	PC
<b>Synonyms</b>	PCB
<b>Gene ID</b>	5091
<b>mRNA Refseq</b>	NM_000920.4
<b>Protein Refseq</b>	NP_000911.2
<b>MIM</b>	608786
<b>UniProt ID</b>	P11498

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Coomassie blue staining of purified PC protein.

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