

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

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

SPECIFICATION

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

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RTRLTSDSVKLAKQVGYENAGTVEFLVDRHGKHYFIEVNSRLQVEHTVTEEITDVDL
VHAQIH VAEGRSLPDLGLRQENIRINGCAIQCRVTTEDPARSFQPD TGRIEVFRSGE
GMGIRLDNASAFQGAVISP HYDSLLVKVIAHGKDHPTAATKMSRALAEFRVRGVKT
NIAFLQNVLNNQQFLAGTVDTQFIDENPELFQL RPAQNRAQKLLHYLGHVMVNGPT
TPIPVKASPSPTDPVPAVPIGPPPAGFRDILLREGPEGFARAVRNH PGLLLMDTTF
RDAHQSLLATRVRTHDLKKIAPYVAHNFSKLFSMENWGGATFDVAMRFLYEC PWR
RLQEL RELIPNIPFQMLLRGANAVGYTNYPDNVVFKECEVAKENGMDVFRVFD SLN
YLPNMLLGMEAAGSAGGVV EAAISYTG DVADPSRTKYSLQYYMGLAEELVRAGTHI
LCIKDMAGLLKPTACTMLVSSLRDRFPDLPLHI HTHDTS GAGVAAMLACAQAGADV
VDVAADSMMSGMTSQPSMGALVACTRG TPLDTEVPMERVF DYSEYWE G ARGLYAA
FDCTATMKSGNSDVYENEIPGGQYTNLHFQAHSMGLGSKFKEVKKAYVEANQMLG
DLIKVTPS SKIVGDLAQFMVQNGLSRAEAEAAEQAEELSFP RSVVEFLQGYIGVPHGGF
PEPFRSKVLKDLPRVEGRPGA SLPPLDLQALEKELVDRHGEEVTPEDVLSAAMY PD
VFAHFKDFTATFGPLDSLNTLFLQGPKIAEEFEV ELERGKTLHIKALAVSDLNRAGQ
RQVFFELNGQLRSILVKDTQAMKEMHFHPKALKDVKGQIGAPMPGKV
IDIKVVAGAKVAKGQPLCVLSAMKMETVVTSPMEGT VRKVHVTKDMTLEGDDLILEIE
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

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

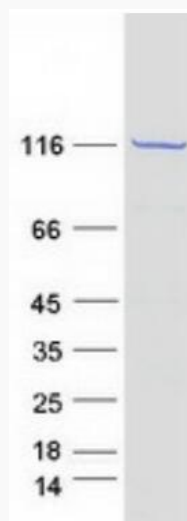
GENE INFORMATION

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

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Coomassie blue staining of purified PC protein.

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